Pakistan Shipowners' Govt. College

C Language & Database

Roll No: **15559**

Muhammad Hasan Khan

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XII-Practical of Board of Intermediate Education Karachi for the year

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Certificate

This is to certify that Mr. Muhammad Hasan Khan s/o Mohsin Ahmed Khan, holding Roll No.15559 of XII class, section A, has successfully completed all the requirement of this practical file for the session 2020-21.

Course Instructor Head of the Department

(Mohsin Ahmed Khan Ghori)

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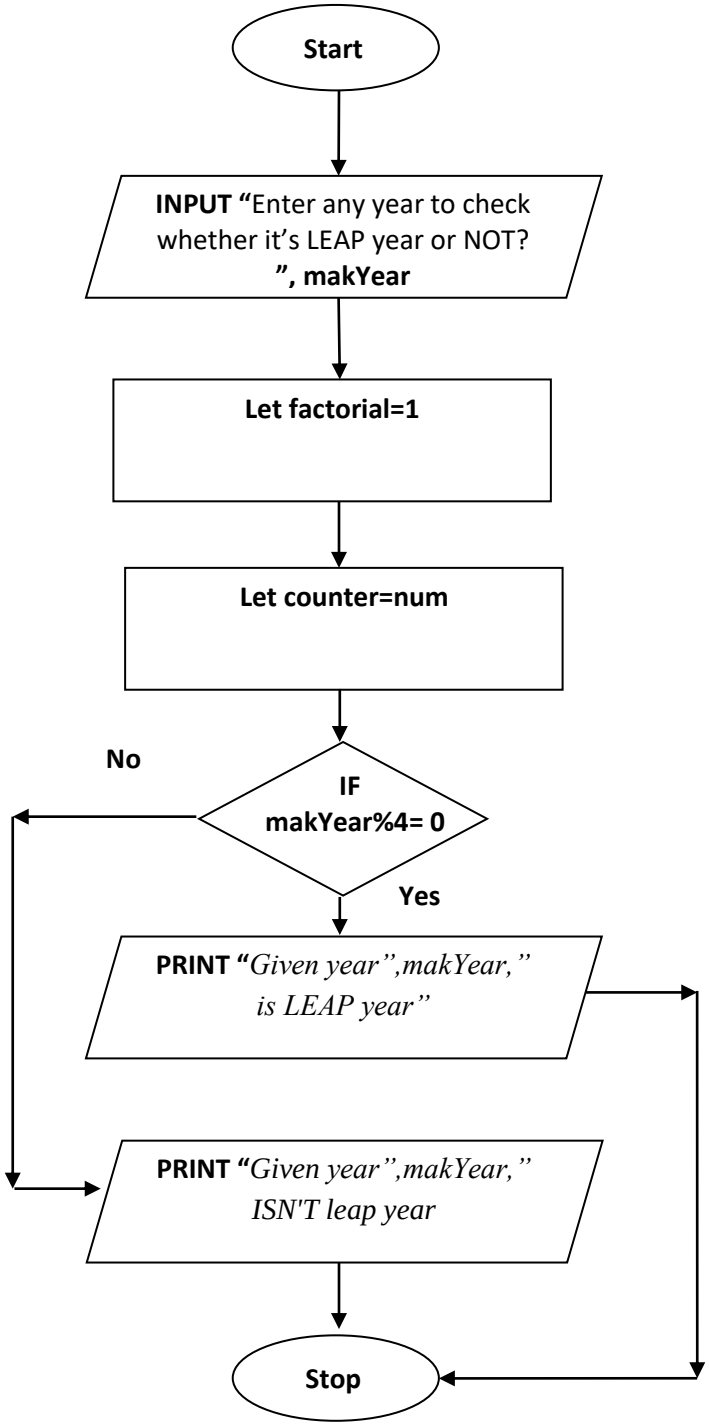
Part-1 C-Language

Practcial No.1 (Flow Chart- Leap Year)



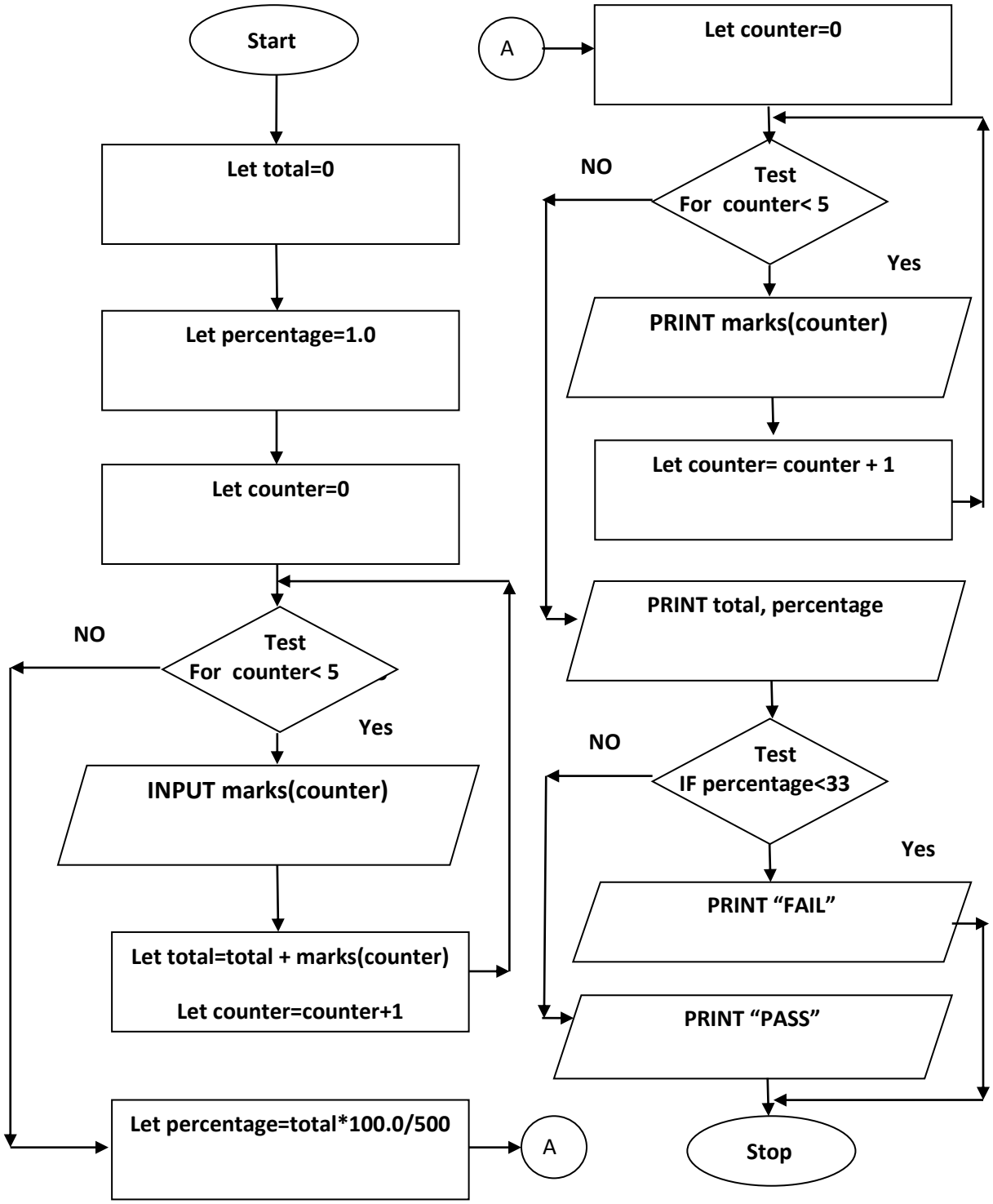
Practcial No.1 (Algorithm- Leap Year)

Step1: BEGIN
Step2:DECLARE makYear AS integer
Step2: WRITE “Enter any year to check whether it’s LEAP year or NOT? "
Step3: READ, makYear
Step4: IF (makYear%4)=1 THEN
WRITE “Given year “,makYear,” is LEAP year”
ELSE
WRITE “Given year ”,makYear,” ISN’T leap year”
Step5: READ a character
Step6:END

Practcial No.1 (Coding/Programming)

```
/* ************************************************************************
Object: Write a program  that input  a year  and then  check  whether its leap year or  Not
************************************************************************/

#include <stdio.h>
#include <conio.h>

int makYear;                    // variable declaration.

void main(void)                         // main function.

{                               // start of-(sof) body of main function.

clrscr();
                // below code is for showing heading of the output
printf("\n\t\t_____");
printf("\n\t\tThis is sample Practical No.01");
printf("\n\t\t~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~");

printf("\n\t Enter any year to check whether it's LEAP year or NOT? ");
scanf("%d",&makYear);

if(givenYear%4==0)
{printf("\n\t Given year %d is LEAP year",makYear);}
else
{printf("\n\t Given year %d ISN'T leap year",makYear);}

getch();                // pause screen till any button is pressed.

}               // end of-(eof) body of main function.


/************************** OUTPUT ***************************************
                _____
                This is sample Practical No.01;
                ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                Enter any year to check whether it's LEAP year or NOT? 1999

                Given year 1999 ISN'T leap year
************************************************************************/
```

Practcial No.2 (Flow Chart- Marks sheet)



Practcial No.2 (Algorithm- Marks sheet)

Step1: BEGIN
Step2:DECLARE total,counter AS integer, percentage as real
Step3:DIM marks(5) as integer
Step5: Set total=0, percentage=1.0
Step6: FOR counter=0 to 4 STEP 1
Step7:WRITE “Enter Subject[“,(counter+1),”] marks? “
Step8: READ marks[counter]
Step9: SET total= total + marks[counter]
Step10: NEXT counter
Step11: SET percentage = total * 100.0/500
Step12: FOR counter=0 to 4 STEP 1
Step13:WRITE “ Subject[“, (counter+1), ”= “ ,marks[counter]
Step14: NEXT counter
Step15: WRITE “ Total= “,total, “out of 500”
Step16:WRITE “ Percentage= “,percentage
Step17: IF percentage<33 THEN WRITE “FAIL” ELSE WRITE “PASS”
Step18:READ character
Step19:END

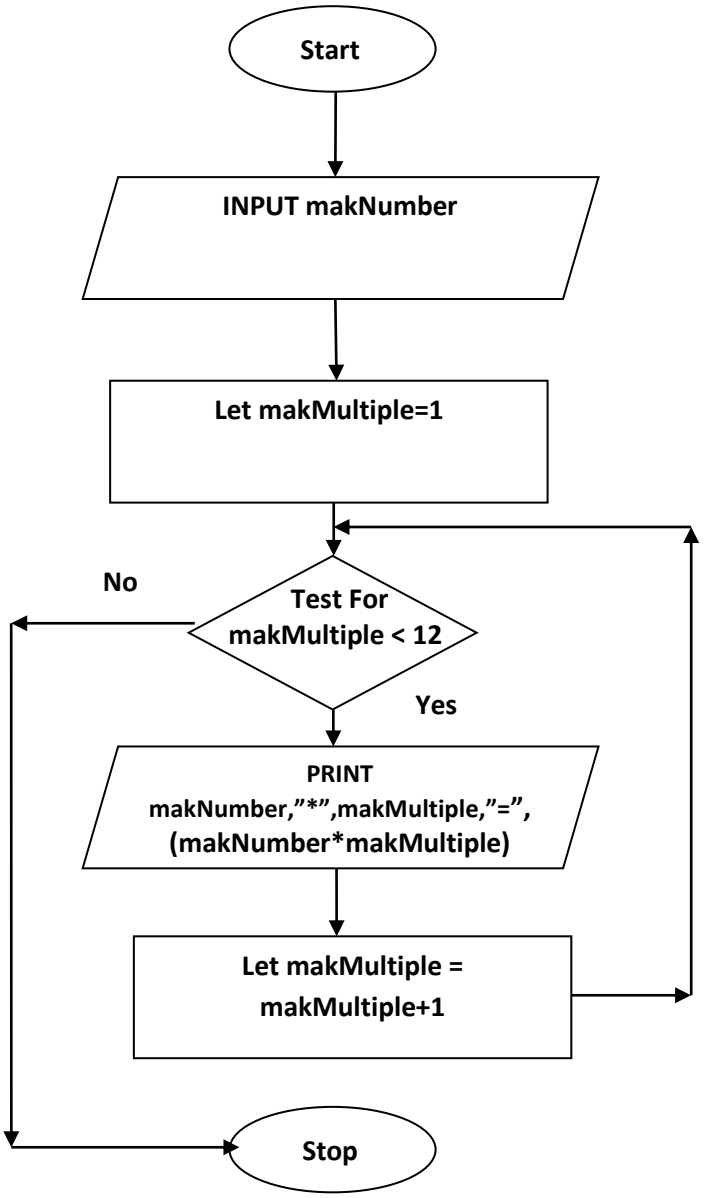
Practcial No.2 (Coding/Programming)

/ ***PSGC***|PRACTICAL02:Write a program that read marks of 5 subjects, calculate the total marks, percentage & state whether candidate is Pass or Fail.*****/*

```
#include <stdio.h>
#include <conio.h>

int marks[5],total,counter;
float percentage;
// varible declaration.

void main(void)                    // main function.

{                                  // start of-(sof) body of main function.

clrscr();
                  // below code is for showing heading of the output
printf("\n\t\t_____");
printf("\n\t\tThis is sample Practical No.02");
printf("\n\t\t~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~");

total=0;percentage=1.0;

for(counter=0;counter<5;counter++)
{
printf("\n\t Enter Subject [%d] marks? ",counter+1);
scanf("%d",&marks[counter]);

total+=marks[counter];
}

percentage=total*100.0/500;

for(counter=0;counter<5;counter++)
{
printf("\n\t Subject[%d] marks= %d",counter+1,marks[counter]);
}
printf("\n\n\t\tTotal= %d out of 500",total);
printf("\n\n\t\tPercentage= %.2f\n\n\t\t\t",percentage);
```

```
if(percentage<33)
{printf("FAIL");}
else
{printf("PASS");}

getch();                    // pause screen till any button is pressed.

}                   // end of-(eof) body of main function.

/************************ OUTPUT ************************************

                    _____________________________
                    This is sample Practical No.02
                    ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

          Enter Subject [1] marks? 70
          Enter Subject [2] marks? 60
          Enter Subject [3] marks? 80
          Enter Subject [4] marks? 90
          Enter Subject [5] marks? 100

          Subject[1] marks= 70
          Subject[2] marks= 60
          Subject[3] marks= 80
          Subject[4] marks= 90
          Subject[5] marks= 100

          Total= 400 out of 500
          Percentage= 80.00


                    PASS
*********************************************************************************/
```

Practcial No.3 (Flow Chart- Table of Inputted No.)



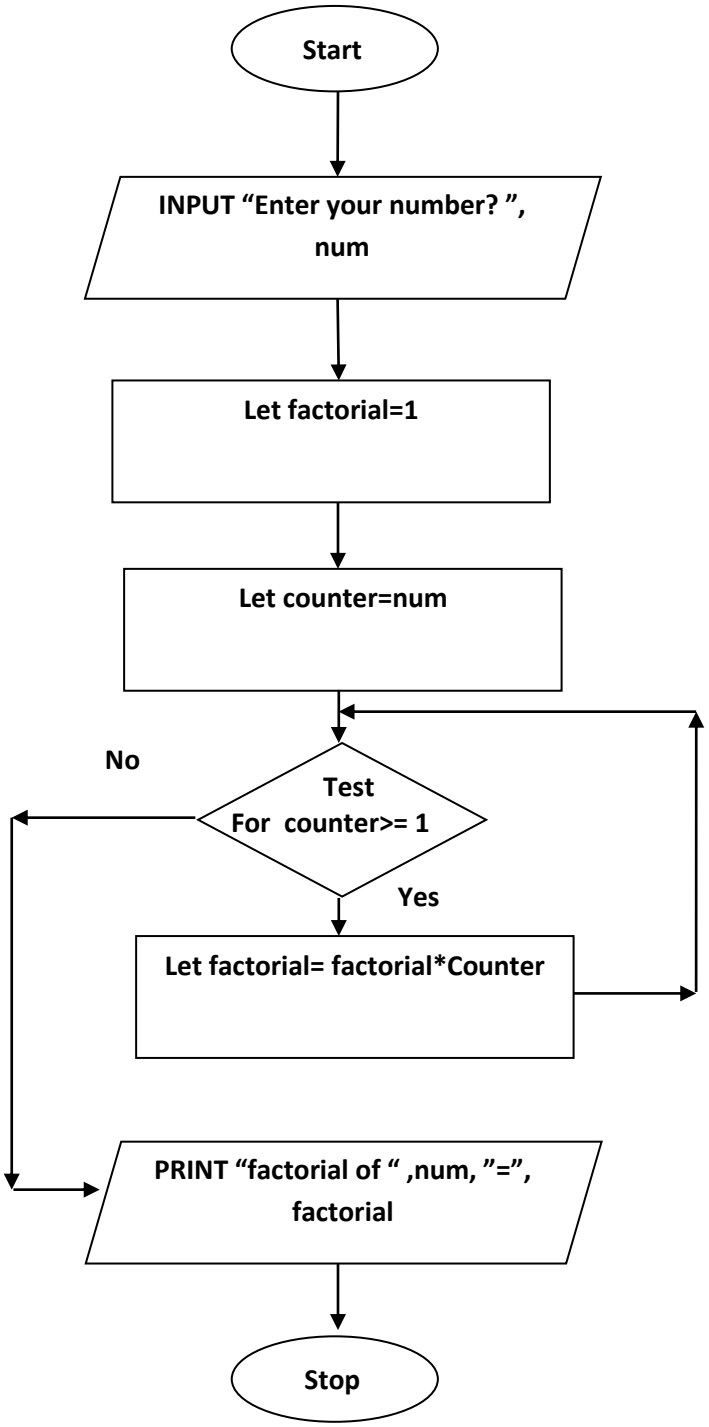
Practcial No.3 (Algorithm- Table of Inputted No.)

Step1: BEGIN
Step2:DECLARE makNumber,makMultiple as integer
Step3: WRITE “Enter any number to generate it’s table? "
Step4: READ makNumber
Step5: FOR makMultiple=1 TO 12 STEP 1
Step6: WRITE
makNumber,”*”,makMultiple,”=”,(makNumber*makMultiple)
Step7: NEXT makMultiple
Step8: READ character
Step9: END

Practcial No.3 (Coding/Programming)

```
/* ***PSGC***|PRACTICAL03: Write program to generate the table of any inputted
number *****/

#include <stdio.h>
#include <conio.h>

int makNumber,makMultiple;                    // variables declaration.

void main(void)                               // main function.
{                                             // start of-(sof) body of main function.
clrscr();
                    // below code is for showing heading of the output
printf("\n\t\t_____");
printf("\n\t\tThis is sample Practical No.02");
printf("\n\t\t~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~");
printf("\n\t Enter any number to generate it's table? ");
scanf("%d",&makNumber);

                    // for-loop to generate table till 12.
for(makMultiple=1;makMultiple<=12;makMultiple++)
{
printf("\n\t%d * %d = %d"makNumber,makMultiple,(makNumber*makMultiple));
}
getch();                    // pause screen till any button is pressed.

}                   // end of-(eof) body of main function.
/************************** OUTPUT ************************************

                    _____
                    This is sample Practical No.03
                    ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
          Enter any number to generate it's table? 5
          5 * 1 = 5
          5 * 2 = 10
          5 * 3 = 15
          5 * 4 = 20
          5 * 5 = 25
          5 * 6 = 30
          5 * 7 = 35
          5 * 8 = 40
          5 * 9 = 45
          5 * 10 = 50
          5 * 11 = 55
          5 * 12 = 60
**********************************************************************************/
```

Practcial No.4 (Flow Chart-Factorial of inputted No.)



Practcial No.4 (Algorithm- Factorial of inputted No.)

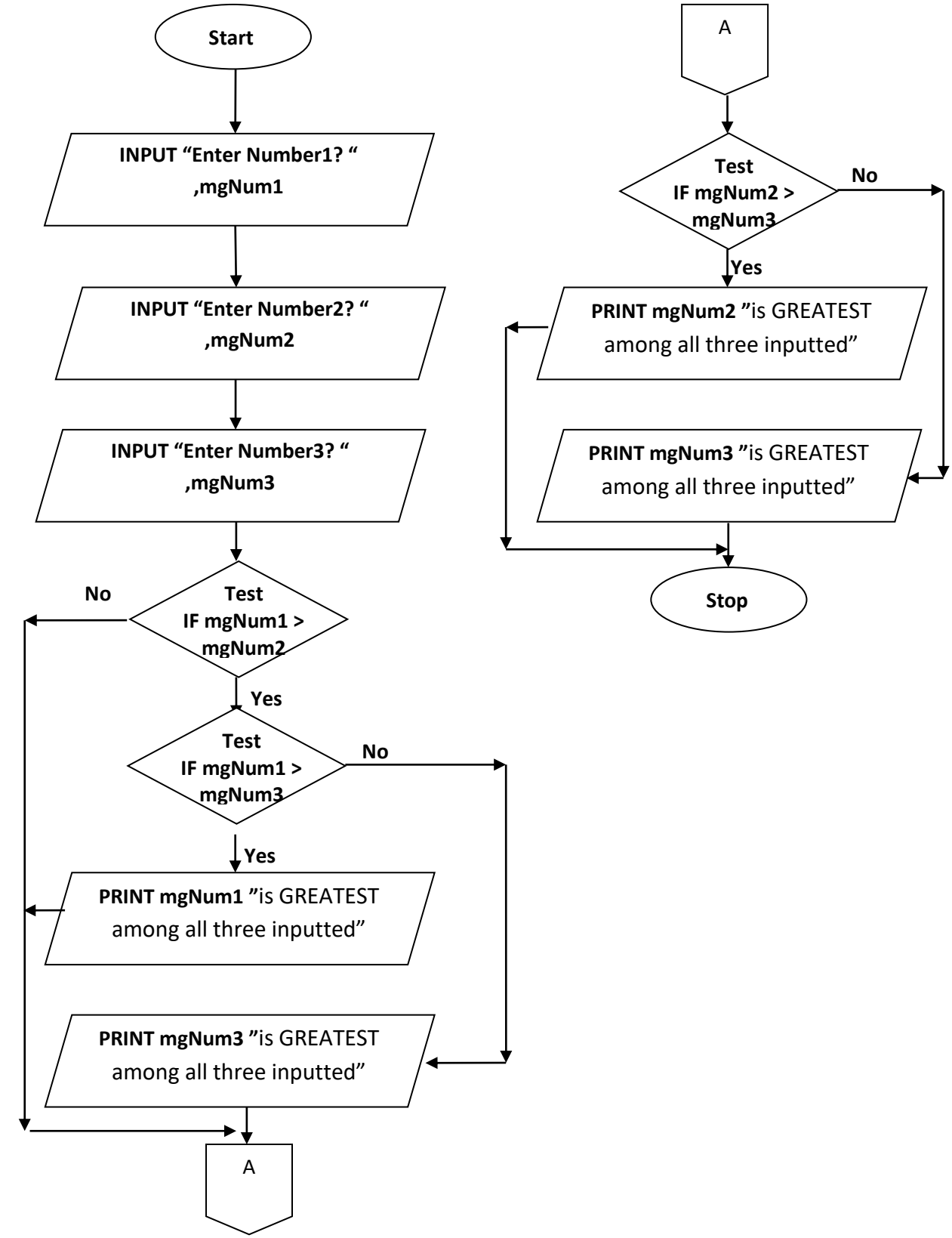
Step1: BEGIN
Step2:DECLARE counter,factorial,num AS long integer
Step2: WRITE “Enter Number for Factorial? "
Step3: READ num
Step4: SET factorial=1
Step5: SET counter=factorial
Step7: FOR counter=factorial down to 2 STEP=-1
Step8: SET factorial=factorial*counter
Step9: NEXT counter
Step10:WRITE “Factorial of”, num, “ = " ,factorial
Step11:END

Practcial No.4 (Coding/Programming)*/*

****PSGC***|PRACTICAL04: Write a program that finds the factorial of an inputted number.*****/*

```
#include <stdio.h>
#include <conio.h>

int inputtedNumber,factorial;

// variable declaration.

void main(void)                         // main function.
{                                       // start of-(sof) body of main function.
clrscr();
                    // below code is for showing heading of the output
printf("\n\t\t_____");
printf("\n\t\tThis is sample Practical No.04");
printf("\n\t\t~~~~~~~~~~~~~~~~~~~~~~~~~~~~");

printf("\n\t Enter number to find it's factorial ? ");
scanf("%d",&inputtedNumber);

printf("\n\t Factorial of [%d]",inputtedNumber);
factorial=1.0;
for(inputtedNumber=inputtedNumber;inputtedNumber>=1;inputtedNumber--)
{factorial*=inputtedNumber;}
printf(" is [%d]",factorial);

getch();                    // pause screen till any button is pressed.
}                   // end of-(eof) body of main function.

/************************ OUTPUT ************************************

                    _____
                    This is sample Practical No.04
                    ~~~~~~~~~~~~~~~~~~~~~~~~~~~~
          Enter number to find it's factorial ? 6
          Factorial of [6] is [720]
*********************************************************************/
```

Practcial No.5 (Flow Chart- Greatest among 3 no.)



Practcial No.5 (Algorithm- Greatest among 3 no.)

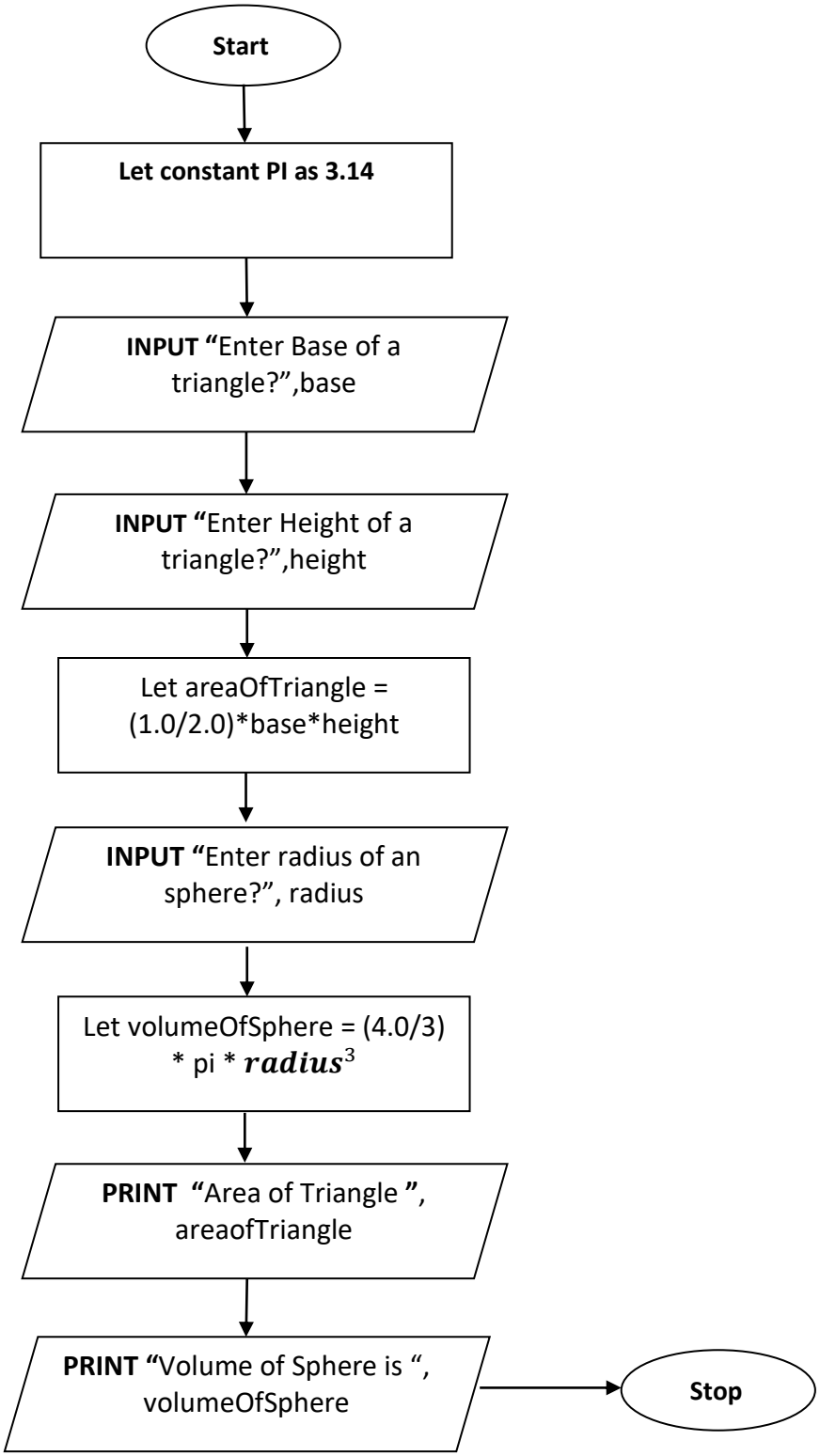
Step1: BEGIN
Step2: DECLARE mgNum1,mgNum2,mgNum3 AS integer
Step3: WRITE “Enter Number1”
Step4: READ mgNum1
Step5: WRITE “Enter Number2”
Step6: READ mgNum2
Step7: WRITE “Enter Number3”
Step8: READ mgNum3
Step9: IF mgNum1> mgNum2 THEN GOTO Step10 ELSE Step14
Step10: IF mgNum1> mgNum3 THEN Step8 ELSE Step9
Step11: WRITE “number1=”,mgNum1,” is GREATEST among all three inputted Numbers”
Step12: WRITE “number3=”,mgNum3,” is GREATEST among all three inputted Numbers”
Step13: ENDIF rem *** eof step7 if-structure ***
Step14: IF mgNum2>mgNum3 THEN GOTO Step15 ELSE Step16
Step15: WRITE “number2=”,mgNum2,” is GREATEST among all three inputted Numbers”
Step16: ENDIF rem *** eof step15 if-structure ***
Step17: ENDIF rem *** eof step9 if-structure ***
Step18: WRITE “number3=”,mgNum3,” is GREATEST among all three inputted Numbers”
Step19: END

Practcial No.5 (Coding/Programming)

```
/* ***PSGC***|PRACTICAL05:Write a program that finds out the greatest number among
three inputted numbers.*****/
#include <stdio.h>
#include <conio.h>
int mgNum1,mgNumb2,mgNum3;                    // variable declaration.
void main(void)                    // main function.
{                                  // start of-(sof) body of main function.
clrscr();
                   // below code is for showing heading of the output
printf("\n\t\t_____");
printf("\n\t\tThis is sample Practical No.05");
printf("\n\t\t~~~~~~~~~~~~~~~~~~~~~~~~~~~~~");
printf("\n\t Enter Number1 ? ");
scanf("%d",&mgNum1);
printf("\n\t Enter Number2 ? ");
scanf("%d",&mgNum2);
printf("\n\t Enter Number3 ? ");
scanf("%d",&mgNumb3);

if(mgNum1>mgNum2)
{                  // body of outer-most if statement.
if(mgNum1>mgNumb3)
{                  // body of inner if statement.
printf("\n\t\t number1=[%d] is GREATEST among all three inputted Numbers",mgNum1);
}
else
{                  // else of inner if.
printf("\n\t\t number3=[%d] is GREATEST among all three inputted Numbers",mgNum3);
}
}
else if(mgNum2>=mgNum3)
{                  // else-if of outer-most if statement.
printf("\n\t\t number2=[%d] is GREATEST among all three inputted Numbers",mgNum2);
}
else
{                  // else of outer-most if statement.
printf("\n\t\t number3=[%d] is GREATEST among all three inputted Numbers",mgNum3);
}
```

```
getch();                    // pause screen till any button is pressed.
}                   // end of-(eof) body of main function.
/************************ OUTPUT ************************************

                ____________________________
                This is sample Practical No.05
                ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

        Enter number1 ? 6
        Enter number2 ? 7
        Enter number3 ? 5

        number2=[7] is GREATEST among all three inputted Numbers
*********************************************************************/
```

Practcial No.6 (Flow Chart- Calculating the Area and Volume)



Practcial No.6 (Algorithm- Calculating the Area and Volume)

Step1: BEGIN
Step2: DECLARE pi AS 3.14
Step3: DECLARE areaOfTriangle, volumeOfSphere AS Real Number
Step4: DECLARE radius,base,height AS integer
Step5: WRITE “Enter Base of a triangle? "
Step6: READ base
Step7: WRITE “Enter Height of a triangle? "
Step8: READ height
Step9: SET areaOfTriangle= (1.0/2.0)*base*height
Step10: WRITE “Enter radius of an sphere? "
Step11: READ radius
Step12: SET volumeOfSphere= (4.0/3) * pi * $\boldsymbol{radius}^3$
Step13: WRITE “ Area of Triangle[base=]”, base, “height= “, height, “] is “, areaofTriangle
Step14: WRITE “ Volume of Sphere[radius= “, radius ,”] is “, volumeOfSphere
Step15: READ character
Step16: END

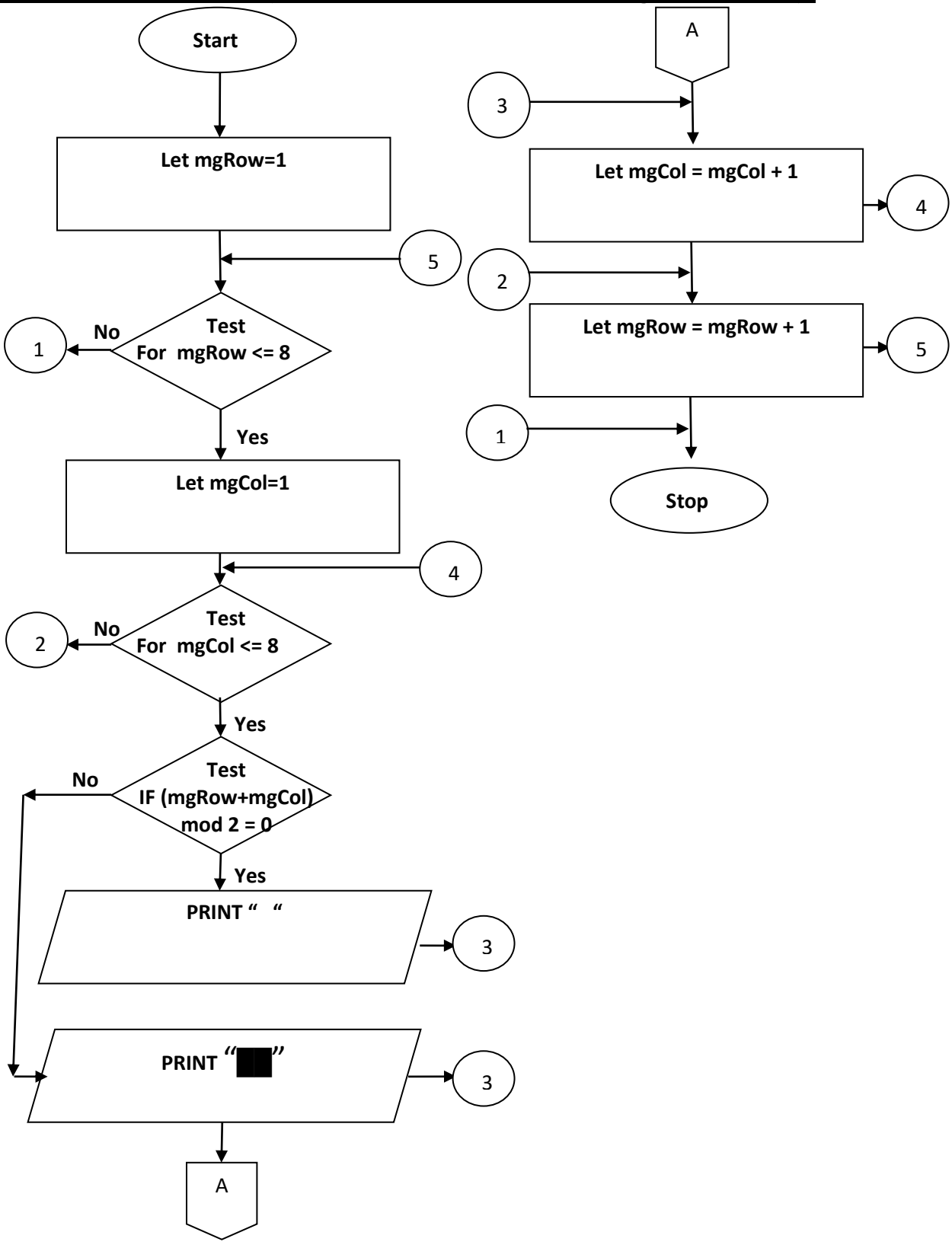
Practcial No.6 (Coding/Programming)*/*

****PSGC***|PRACTICAL06:Write a program which uses arithmetic operators to calculate the area of triangle and volume of sphere.*
area of a triangle=(1/2)Base x Height
*volume of sphere=(4/3 x pi x radius x radius x radius) *****/*

```
#include <stdio.h>
#include <conio.h>
#include <math.h>

#define pi 3.14
float areaOfTriangle,volumeOfSphere;        // variable declaration.
int radius,base,height;
void main(void)                             // main function.
{                                   // start of-(sof) body of main function.
clrscr();
                // below code is for showing heading of the output
printf("\n\t\t_____");
printf("\n\t\tThis is sample Practical No.06");
printf("\n\t\t~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~");

printf("\n\t Enter Base of a triangle? ");
scanf("%d",&base);

printf("\n\t Enter Height of a triangle? ");
scanf("%d",&height);

areaOfTriangle=(1.0/2.0*base*height);


printf("\n\t Enter radius of an sphere? ");
scanf("%d",&radius);

volumeOfSphere= 4.0/3*pi*pow(radius,3);

printf("\n\t Area of Triangle[base=%d height=%d] is %.2f",base,height,areaOfTriangle);
printf("\n\t Volume of Sphere[radius=%d] is %.2f",radius,volumeOfSphere);

getch();                            // pause screen till any button is pressed.
```

```
}                   // end of-(eof) body of main function.

/************************ OUTPUT ************************************

                    _____________________________
                    This is sample Practical No.06
                    ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
          Enter Breath of a triangle? 4
          Enter Height of a triangle? 6
          Enter radius of an sphere? 3
          Area of Triangle[base=6 height=4] is 12.00
          Volume of Sphere[radius=3] is 113.04


**********************************************************************/
```

Practcial No.7 (Flow Chart- Shatranjh Board)



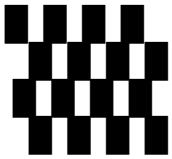
Practcial No.7 (Algorithm-- Shatranjh Board)

Step1: BEGIN
Step2: DECLARE mgRow,mgColumn AS integer
Step3: FOR mgRow=1 to 8 Step=1
Step4: WRITELINE
Step5: FOR mgColumn=1 to 8 Step=1
Step6: IF (mgRow+mgColumn) Mod 2= 0 THEN WRITE " " ELSE WRITE "■■"
Step7: NEXT mgColumn
Step8: NEXT mgRow
Step9: READ character
Step10: END

Practcial No.7 (Coding/Programming)

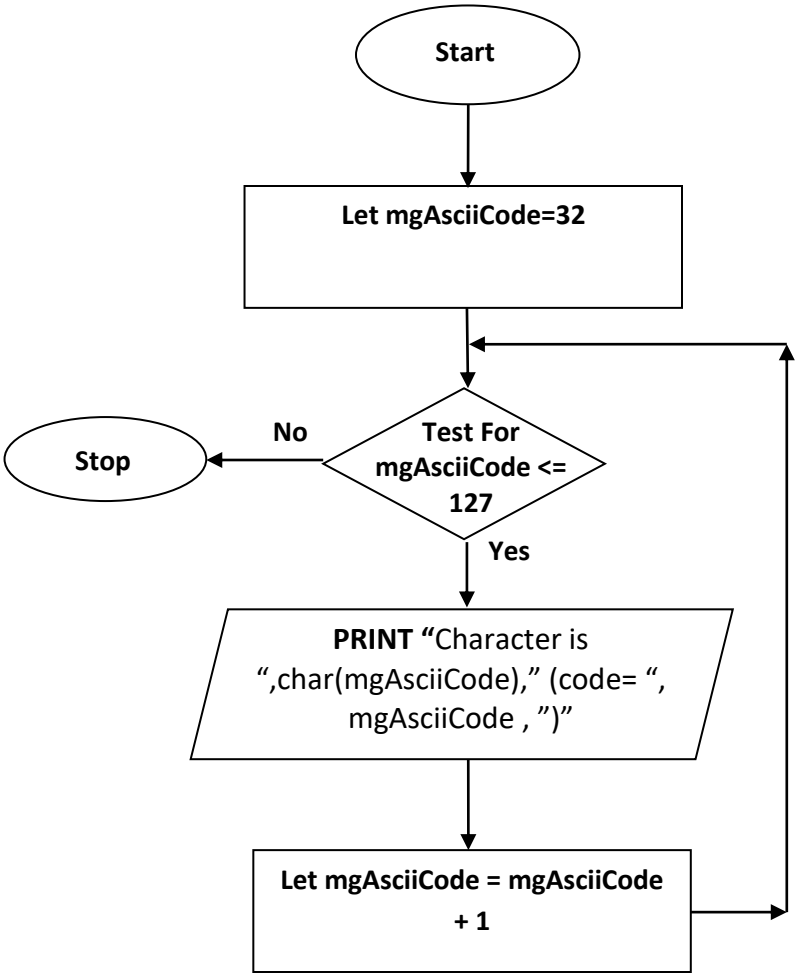
/ ***PSGC***|PRACTICAL07:write a program to draw a check-board using if-else statement and Nested for loops. *****/*

```
#include <stdio.h>
#include <conio.h>
int mgRow,mgColumn;                    // variable declaration.

void main(void)                        // main function.
{                                  // start of-(sof) body of main function.
clrscr();
                    // below code is for showing heading of the output
printf("\n\t\t_____");
printf("\n\t\tThis is sample Practical No.07");
printf("\n\t\t~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~");
printf("\n\n");             // printf two line gap on screen.
for(mgRow=1;mgRow<=8;mgRow++)
{
printf("\n");               // printing line gap on screen.
for(mgColumn=1;mgColumn<=8;mgColumn++)
{

if((mgRow+mgColumn)%2==0)
printf("  ");
else
printf("██"); // Ascii code of ██ is 219 can also be used.
}                          // end of for columnCounter loop.

}                          // end of for rowConter loop.
getch();                           // pause screen till any button is pressed.
}                  // end of-(eof) body of main function.
/************************ OUTPUT ************************************
                    _____
                    This is sample Practical No.07
                    ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
```



```
*********************************************************************/
```

Practcial No.8 (Flow Chart- ASCII Code)



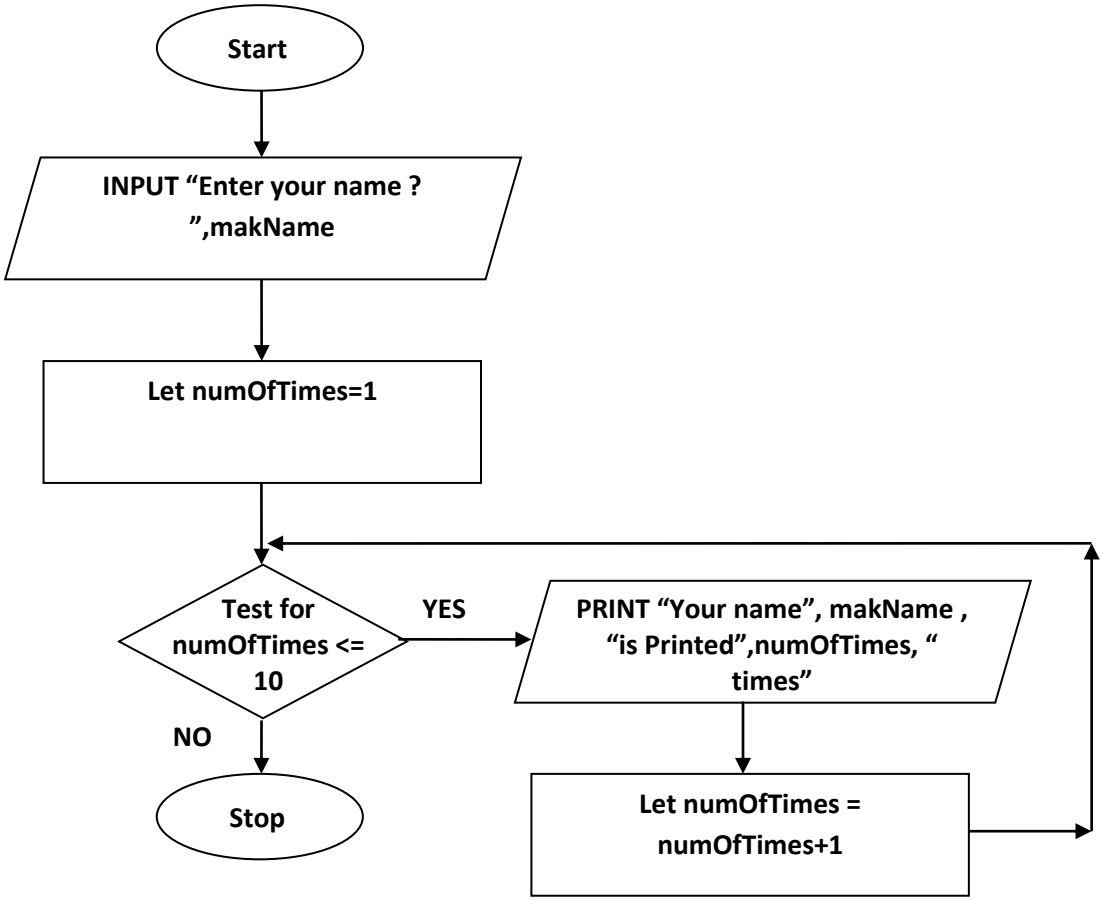
Practcial No.8 (Algorithm- ASCII Code)

Step1: BEGIN
Step2: DECLARE mgAsciiCode AS integer
Step3: FOR mgAsciiCode=32 to 127 Step=1
Step4: WRITE “Character is “,char(mgAsciiCode),” (code= “, mgAsciiCode , ”)”
Step5: READ character
Step6: END

Practcial No.8 (Coding/Programming)

```
/* ***PSGC***|PRACTICAL08:Write a program that generate characters corresponding to
ASCII codes from 32 to 127 (using any loop). *****/

#include <stdio.h>
#include <conio.h>

int mgAsciiCode;                // variable declaration.

void main(void)                         // main function.
{                               // start of-(sof) body of main function.
clrscr();
                // below code is for showing heading of the output
printf("\n\t\t_____");
printf("\n\t\tThis is sample Practical No.08");
printf("\n\t\t~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~");
for(mgAsciiCode=32;mgAsciiCode<=127;mgAsciiCode++)
{
printf("\tCharacter is %c(code=%d)",mgAsciiCode,mgAsciiCode);
}                       // end of for loop.


getch();                        // pause screen till any button is pressed.
}               // end of-(eof) body of main function.

/************************ OUTPUT ************************************

                _____
                This is sample Practical No.08
                ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Character is  (code=32)   Character is !(Code=330   .   .Character is A(code=65)
Character is B(code=66)..... Character is •  (code=127)

*********************************************************************************/
```

Practcial No.9 (Flow Chart- Printing name 10 times)



Practcial No.9 (Algorithm- Print name 10 times)

Step1: BEGIN
Step2: DECLARE Dim makName(20) AS character, numOfTimes as integer
Step3: WRITE “Enter your name ? “
Step4: READ makName
Step5: FOR numOfTimes=1 to 10 Step=1
Step6: WRITE “Your Name”, makName , “ is printed“, numOfTimes, “ times
Step7: READ character
Step8: END

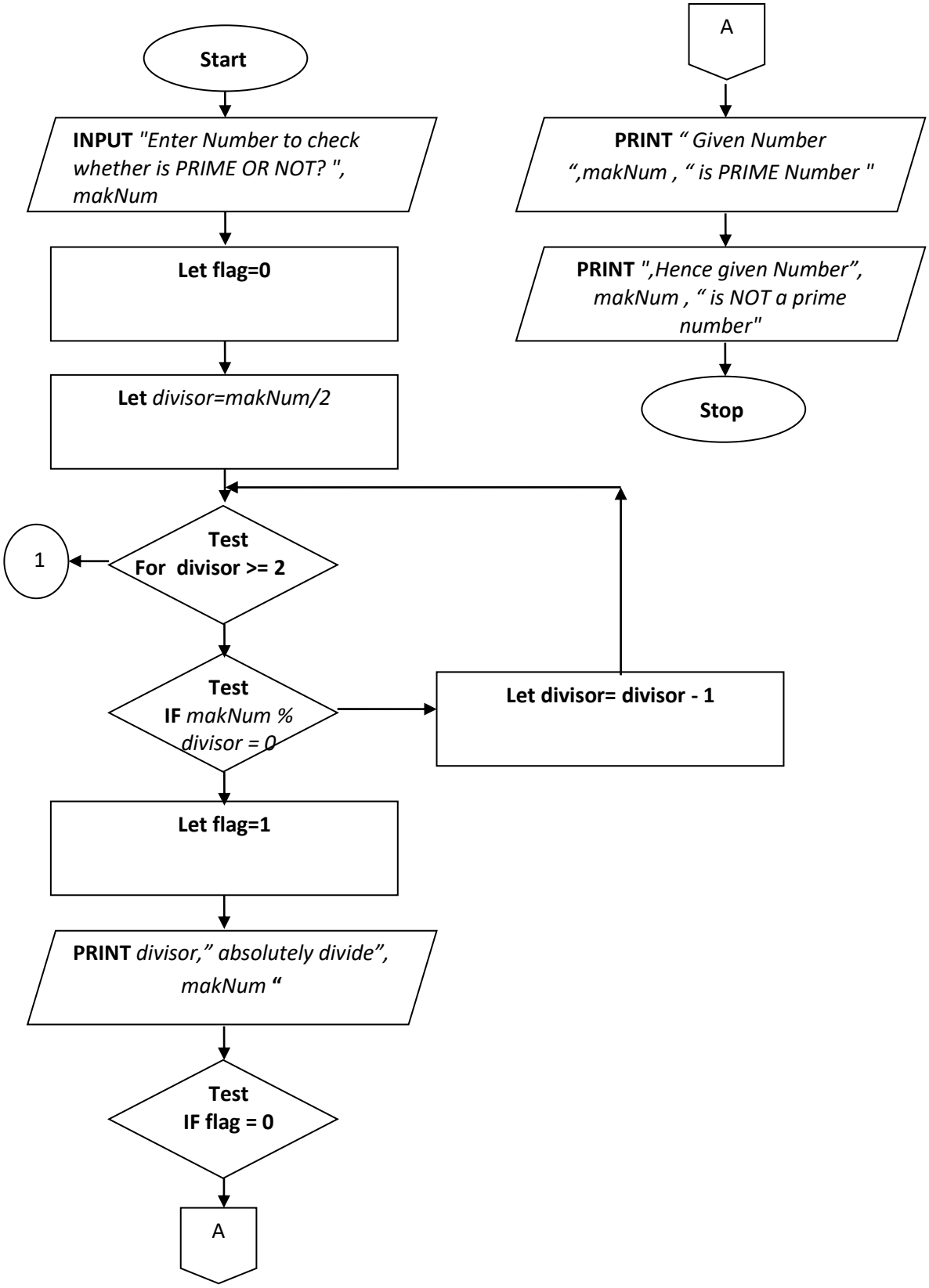
Practcial No.9 (Coding/Programming)

/ ***PSGC***|PRACTICAL09:Write a program that reads your name and prints that name 10 times using scanf() and printf() statements) *****/*

```
#include <stdio.h>
#include <conio.h>

char name[20];          // variable declaration.
int numOfTimes;

void main(void)                         // main function.
{                                       // start of-(sof) body of main function.
clrscr();
                    // below code is for showing heading of the output
printf("\n\t\t_____");
printf("\n\t\tThis is sample Practical No.09");
printf("\n\t\t~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~");

printf("\n\t Enter your name ? ");
scanf("%s"makName);
for(numOfTimes=1;numOfTimes<=10;numOfTimes++)
{
printf("\n\t Your Name %s is printed %d times " ,makName, numOfTimes);
}
getch();                                // pause screen till any button is pressed.
}               // end of-(eof) body of main function.
```

```
/************************ OUTPUT ************************************

                _____________________________
                This is sample Practical No.09
                ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

        Enter Student name? Hasan

        Enter Student age? 3

        Enter height (5.4/6.0 etc)? 3.25

        Enter Student gender(male/female)? male

        Name of Student is Hasan
        Age of Student is 3
        Height of Student is 3.25
        Gender of Student is male
*********************************************************************/
```

Practcial No.10 (Flow Chart- Prime No. checking)



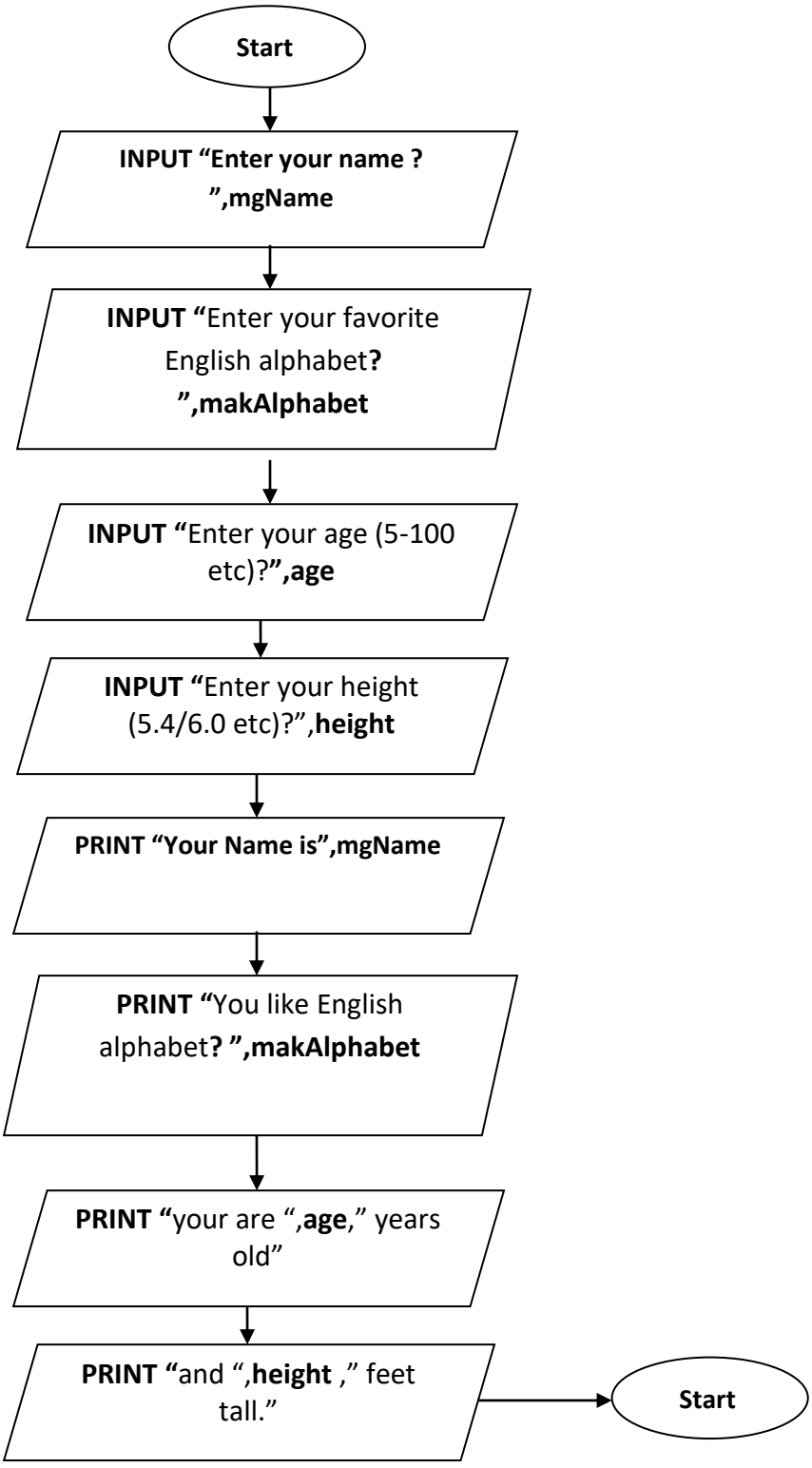
Practcial No.10 (Algorithm- Prime No. checking)

Step1: BEGIN
Step2: DECLARE makNum,flag, divisor as integer
Step3: WRITE*" Enter Number to check whether is PRIME OR NOT? "*
Step4: *READ makNum*
Step5: *flag=0*
Step6: *FOR divisor=makNum/2 to 2 STEP= -1*
Step7: *IF (makNum MOD divisor)= 0 THEN*
Step8: *SET flag=1*
Step9: *WRITE divisor," absolutely divide", makNum*
Step10: *GOTO Step 13*
Step11: *END IF*
Step12: *NEXT divisor*
Step13: *IF flag=0 THEN WRITE " Given Number ",makNum , " is PRIME Number " ELSE WRITE ",Hence given Number", makNum , " is NOT a prime number"*
Step14: *ENDIF*
Step15: *END*

Practcial No.10 (Coding/Programming)

```
/* ***PSGC***|PRACTICAL10:Write a program that input a number and then check it whether
it is  prime or not . *****/

#include <stdio.h>
#include <conio.h>

int number,divisor,flag;        // variable declaration.

void main(void)                         // main function.
{                                       // start of-(sof) body of main function.
clrscr();
                // below code is for showing heading of the output
printf("\n\t\t_____");
printf("\n\t\tThis is sample Practical No.10");
printf("\n\t\t~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~");

printf("\n\t Enter Number to check whether is PRIME OR NOT? ");
scanf("%d",&number);
flag=0;

for(divisor=number/2;divisor>=2;divisor--)
{
if(number%divisor==0) {flag=1;printf("%d absolutely divide %d",divisor,number); break;}
}

if(flag==0) printf("\n\t Given Number %d is PRIME number",number);
else
printf(",Hence given Number %d is NOT a prime number",number);

getch();                                // pause screen till any button is pressed.
}               // end of-(eof) body of main function.

/************************ OUTPUT ************************************

                _____
                This is sample Practical No.10
                ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
        Enter Number to check wheter its PRIME OR NOT? 7
        Given Number 7 is PRIME number

*********************************************************************/
```

Practcial No.11 (Flow Chart)



Practcial No.11 (Algorithm)

Step1: BEGIN
Step2: DECLARE mgName AS String, makAlphabet AS Character, age AS integer, height AS Real number
Step3: WRITE "Enter your name? "
Step4: READ mgName
Step5: WRITE "Enter your favorite English alphabet?"
Step6: READ makAlphabet
Step7: WRITE "Enter your age (5-100 etc)? "
Step8: READ age
Step9: WRITE "Enter your height (5.4/6.0 etc)? "
Step10: READ height
Step11: WRITE "Your Name is ",mgName
Step12: WRITE "you like English alphabet ",makAlphabet
Step13: WRITE "you are ",age, " years old"
Step14: WRITE " and ",height, " feet tall."
Step15: END

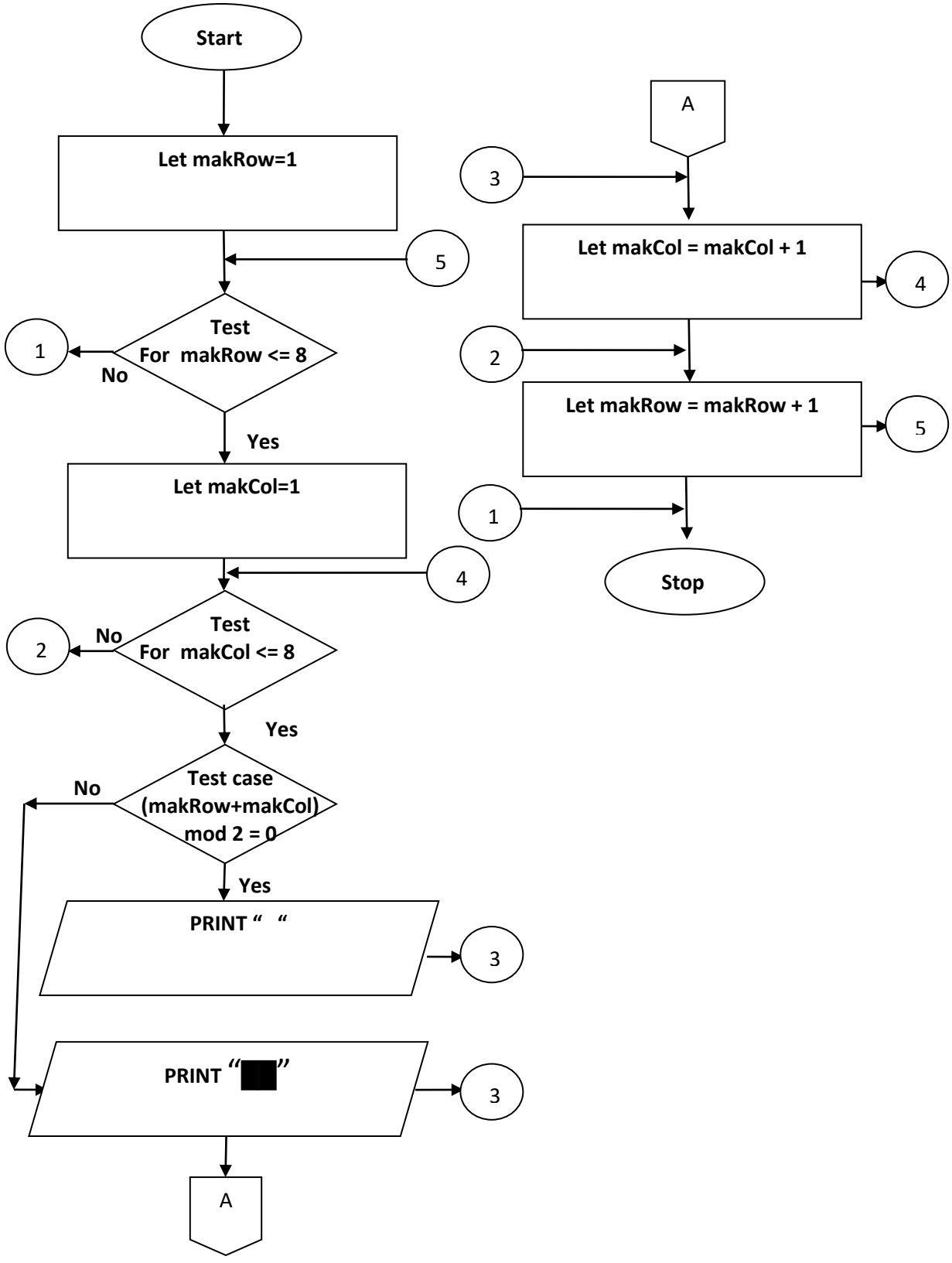
Practcial No.11 (Coding/Programming)

/* ***PSGC***|PRACTICAL11:Write a program which print a text of four lines consisting of characters, integers value and floating point value using printf() statement and escape sequences. . *****/

```
#include <stdio.h>
#include <conio.h>

char mgName[30],makAlphabet;       // variable declaration.
unsigned int age;
float height;

void main(void)                    // main function.
{                                  // start of-(sof) body of main function.
clrscr();
                  // below code is for showing heading of the output
printf("\n\t\t_____");
printf("\n\t\tThis is sample Practical No.11");
printf("\n\t\t~~~~~~~~~~~~~~~~~~~~~~~~~~~~");

printf("\n\t Enter your name? ");
gets(mgName);
printf("\n\t Enter your favorite English alphabet? ");
makAlphabet=getchar();
printf("\n\t Enter your age (5-100 etc)? ");
scanf("%u",&age);
printf("\n\t Enter your height (5.4/6.0 etc)? ");
scanf("%f",&height);

printf("\n\t Your Name is %s,",mgName);
printf("\n\t you like English alphabet %c,",makAlphabet);
printf("\n\t you are %u years old,",age);
printf("\n\t and %.2f feet tall.",height);


getch();          // pause screen till any button is pressed.
}                 // end of-(eof) body of main function.
```

```
/********** OUTPUT **********

        This is sample Practical No.11
        ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

    Enter your name? Muhammad Hasan Khan Ghori

    Enter your favorite English alphabet? M

    Enter your age (3-100 etc)? 3

    Enter your height (5.4/6.0 etc)? 3.25

    Your Name is Muhammad Hasan Khan Ghori,
    you like English alphabet M,
    you are 3 years old,
    and 3.25 feet tall.
**********************************************************************/
```

Practcial No.12 (Flow Chart- Switch statement)

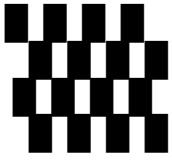


Practcial No.12 (Algorithm- Switch Statement)

Step1: BEGIN
Step2: DECLARE makRow,makCol,result AS integer
Step3: FOR makRow=1 TO 8 STEP=+1
Step4: WRITELINE
Step5: FOR makCol=1 TO 8 STEP=+1
Step6: SET result=(makRow+makCol) MOD 2
Step7: IF result= 0 THEN WRITE “ “ ELSE WRITE ” ■”
Step8: END IF
Step9: NEXT makCol
Step10: NEXT makRow
Step11: READ character
Step12: END

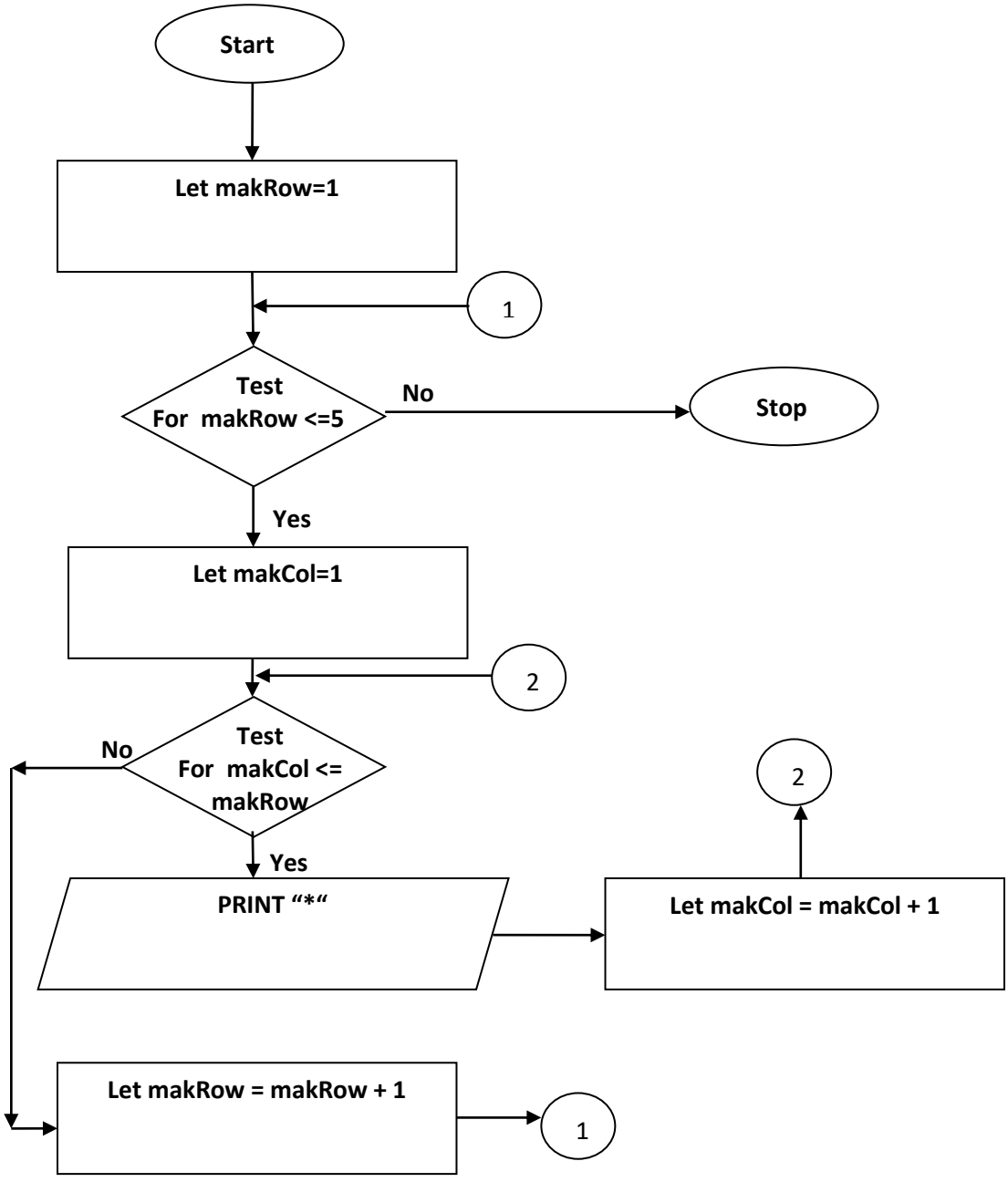
Practcial No.12 (Coding/Programming)

```
/* ***PSGC***|PRACTICAL12:Write a program ,which  uses  Switch  and break statement
.*****/

#include <stdio.h>
#include <conio.h>
int makRow,makCol,result;              // variable declaration.

void main(void)                        // main function.
{                                 // start of-(sof) body of main function.
clrscr();
                  // below code is for showing heading of the output
printf("\n\t\t_____");
printf("\n\t\tThis is sample Practical No.12");
printf("\n\t\t~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~");
printf("\n\n");           // printf two line gap on screen.
for(makRow=1;makRow<=8;makRow++)
{
printf("\n");             // printing line gap on screen.
for(makCol=1;makCol<=8;makCol++)
{
result=(makRow+makCol)%2;

switch(result)
{                         // start of switch(result) body.
case 0:printf("  ");break;
default:printf("%c%c",219,219); // Ascii code of ▉ is 219 can also be used.
}                         // end of switch(result)-statement .

}                         // end of for column loop.
}                         // end of for row loop.

getch();                        // pause screen till any button is pressed.
}                 // end of-(eof) body of main function.

/************************ OUTPUT ************************************

                  _____
                  This is sample Practical No.12
                  ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
```



```
*********************************************************************/
```

Practcial No.13 (Flow Chart- Pattern Printing)



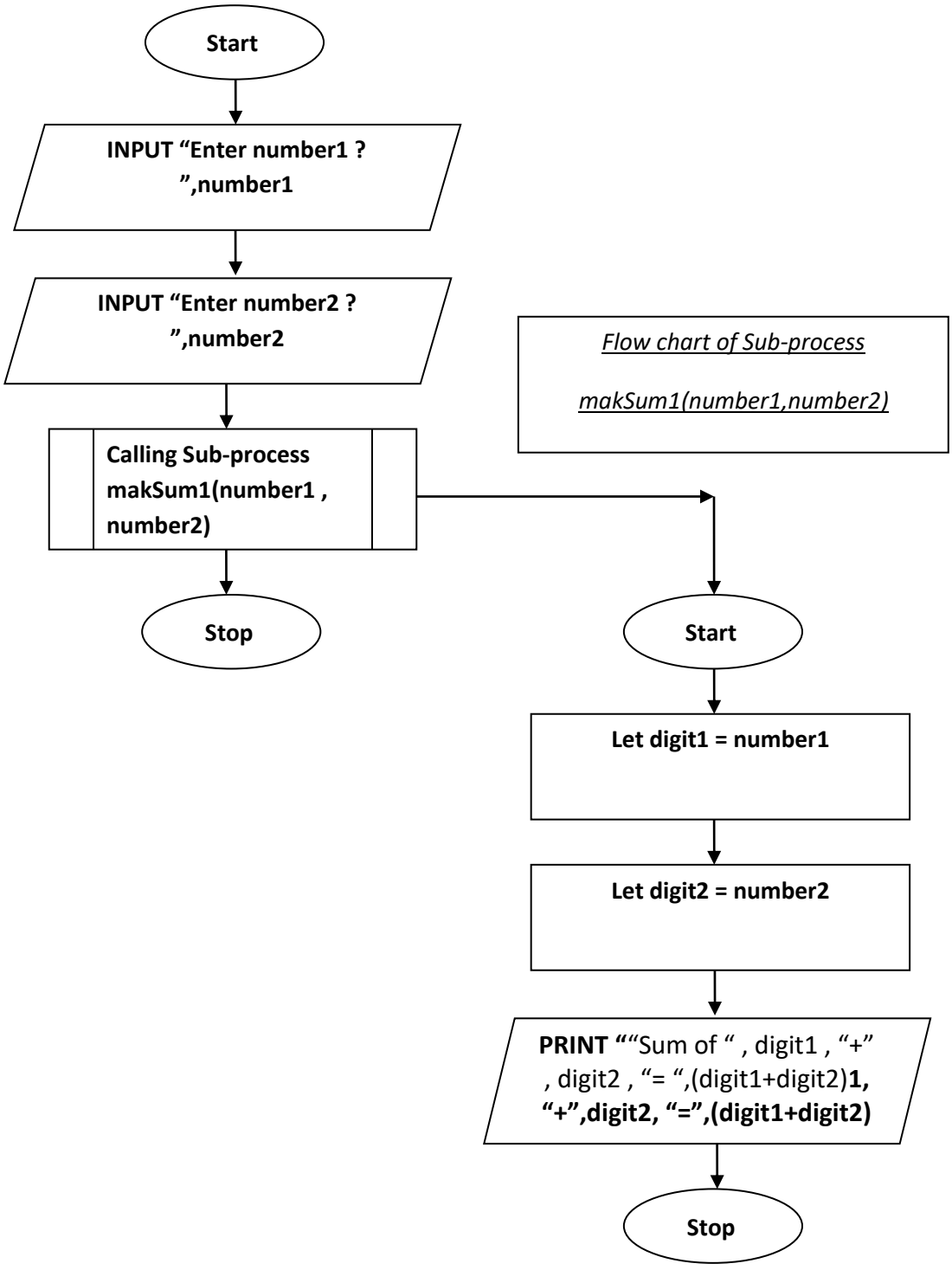
Practcial No.13 (Algorithm- Pattern Printing)

Step1: BEGIN
Step2: DECLARE makRow,makCol,result AS integer
Step3: FOR makRow=1 TO 5 STEP=+1
Step4: WRITELINE
Step5: FOR makCol=1 TO makRow STEP=+1
Step6: WRITE " * "
Step7: NEXT makCol
Step8: NEXT makRow
Step9: READ character
Step10: END

Practcial No.13 (Coding/Programming)

```
/* ***PSGC***|PRACTICAL13:Write a program using  nested for loop  to print the following
output
 *
 * *
 * * *
 * * * *
 * * * * *
**********************************************/

#include <stdio.h>
#include <conio.h>

int makRow,makCol;
;                   // variable declaration.

void main(void)                         // main function.
{                                   // start of-(sof) body of main function.
clrscr();
                    // below code is for showing heading of the output
printf("\n\t\t_____");
printf("\n\t\tThis is sample Practical No.13");
printf("\n\t\t~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~");
printf("\n\n");             // printf two line gap on screen.

for(makRow=1;makCol<=5;makRow++)
{
printf("\n\t\t\t");                   // printing line and tab gap on screen.
for(makCol=1;makCol<=makRow;makCol++)
{
printf(" *");
}                           // end of for makCol loop.
}                           // end of for makRow loop.
getch();                            // pause screen till any button is pressed.
}                   // end of-(eof) body of main function.
/************************ OUTPUT ************************************

                    _____
                    This is sample Practical No.13
                    ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
                            *
                            * *
                            * * *
                            * * * *
                            * * * * *
**********************************************************************/
```

Practcial No.14 (Flow Chart- 2 Nos. SumFunction)



Practcial No.14 (Algorithm- 2 Nos. SumFunction)

Step1: BEGIN
Step2: DECLARE makSum1(integer,integer) AS integer
Step3: DECLARE number1,number2 AS integer
Step4: WRITE “Enter Number1 ?”
Step5: READ number1
Step6: WRITE “Enter Number2 ?”
Step7: READ number2
Step8: *Call makSum1(number1,number2)*
Step9: READ character
Step10: END

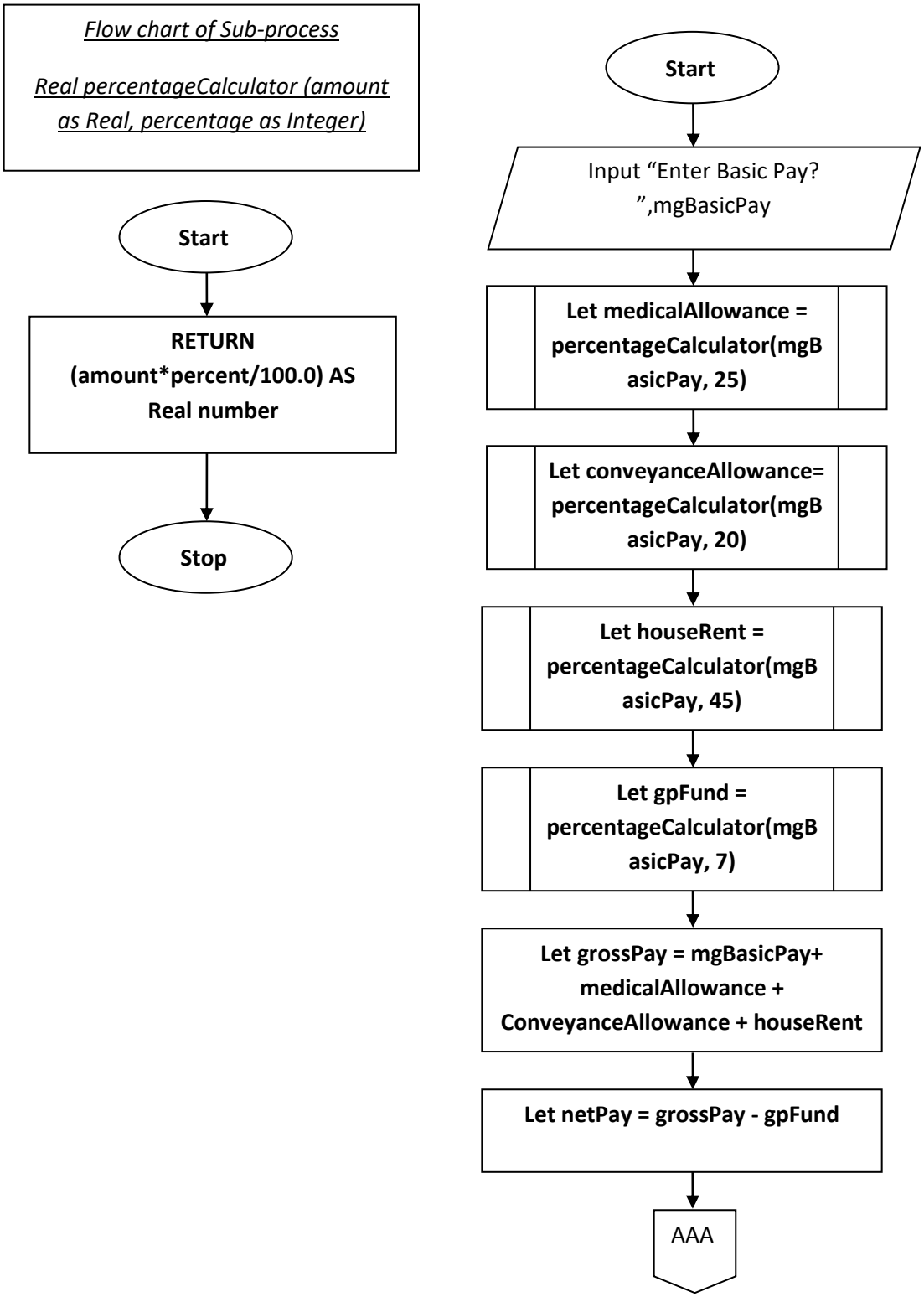
Step11: BEGIN makSum1(digit1 AS integer,digit2 AS integer)
Step12: WRITE “Sum of “ , digit1 , “+” , digit2 , “= “,(digit1+digit2)
Step13: END makSum1

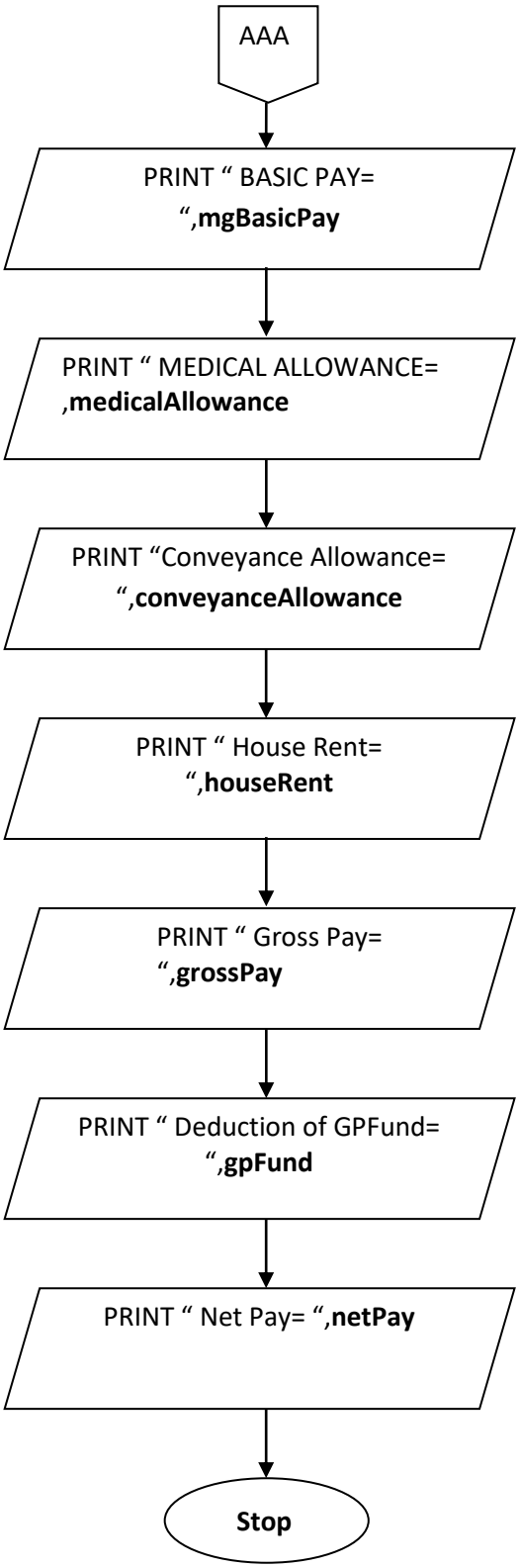
Practcial No.14 (Coding/Programming)

```
/* ***PSGC***|PRACTICAL14:Write  a  program that input  any two  number  and then pass
these numbers as arguments to function sum1 and then  print their sum.
**************************************************************/

#include <stdio.h>
#include <conio.h>

void sum1(int,int);              // function sum1 declaration.

int number1,number2;             // variable declaration.

void main(void)                          // main function.
{                                // start of-(sof) body of main function.
clrscr();
                // below code is for showing heading of the output
printf("\n\t\t_____");
printf("\n\t\tThis is sample Practical No.14");
printf("\n\t\t~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~");
printf("\n\n");          // printf two line gap on screen.

printf("\n\t Enter Number1 ? ");
scanf("%d",&number1);

printf("\n\t Enter Number2 ? ");
scanf("%d",&number2);

sum1(number1,number2);     // calling sum1 function & passing number1 & number2 to it.


getch();                         // pause screen till any button is pressed.
}               // end of-(eof) body of main function.


                // below is the definition of function sum1.
void sum1(int digit1,int digit2)
{                       // start of sum1 function body.
printf("\n\t Sum of %d + %d = %d",digit1,digit2,(digit1+digit2));
return;
}                       // end of sum1 function body.
```

```
/************************ OUTPUT *************************************

                    This is sample Practical No.14
                    ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
          Enter Number1 ? 7

          Enter Number2 ? 6

          Sum of 7 + 6 = 13
**********************************************************************/
```

Practcial No.15 (Flow Chart- Payroll of Emplyee)




AAA
PRINT " BASIC PAY= ",mgBasicPay
PRINT " MEDICAL ALLOWANCE= ,medicalAllowance
PRINT "Conveyance Allowance= ",conveyanceAllowance
PRINT " House Rent= ",houseRent
PRINT " Gross Pay= ",grossPay
PRINT " Deduction of GPFund= ",gpFund
PRINT " Net Pay= ",netPay
Stop

Practcial No.15 (Algorithm- Payroll of Employee)

Step1: BEGIN
Step2: DECLARE percentageCalculator(Realnumber, integer) AS Real Number
Step3: DECLARE mgBasicPay, medicalAllowance, conveyanceAllowance, houseRent, gpFund, grossPay, netPay AS Real Number
Step4: WRITE "Enter Basic Pay? "
Step5: READ mgBasicPay
Step6: SET medicalAllowance=CALL percentageCalculator(mgBasicPay,25)
Step7: SET conveyanceAllowance = CALL percentageCalculator(mgBasicPay,20)
Step8: SET houseRent = CALL percentageCalculator(mgBasicPay,45)
Step9: SET gpFund = CALL percentageCalculator(mgBasicPay,7)
Step10: SET grossPay= mgBasicPay + medicalAllowance + conveyanceAllowance + houseRent
Step11: SET netPay= grossPay-gpFund
Step12: WRITE " BASIC PAY= ",mgBasicPay
Step13: WRITE " MEDICAL ALLOWANCE= ",medicalAllowance
Step14: WRITE " Conveyance Allowance= ",conveyanceAllowance
Step15: WRITE " House Rent= ",houseRent
Step16: WRITE " Gross Pay= ",grossPay
Step17: WRITE " Deduction of GPFund= ",gpFund
Step18: WRITE " Net Pay= ",netPay
Step19: READ character
Step20: END
Step21: BEGIN FUNCTION percentageCalculator(amount AS Real Number,percent AS integer)
Step22: RETURN (amount*percent/100.0)
Step23: END FUNCTION percentageCalculator

Practcial No.15 (Coding/Programming)

```
/* ***PSGC***|PRACTICAL15:Write  a program  to calculate a pay roll  of  employees .Read
the Basic pay from key board .Calculate  medical allowance  as 25%  of basic pay , conveyance

allowance  as 20% and house rent  45 % of basic pay and deduction  of  GP fund  7% of basic
pay

. Calculate   gross pay and net pay .
*****************************************************************/

#include <stdio.h>
#include <conio.h>

float percentageCalculator(float,int);          // function sum1 declaration.

float mgBasicPay,medicalAllowance,conveyanceAllowance,houseRent,gpFund,grossPay,netPay;


// variable declaration.

void main(void)                              // main function.
{                                      // start of-(sof) body of main function.
clrscr();
                // below code is for showing heading of the output
printf("\n\t\t________________________________");
printf("\n\t\tThis is sample Practical No.15");
printf("\n\t\t~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~");
printf("\n\n");          // printf two line gap on screen.

printf("\n\t Enter Basic Pay ? ");
scanf("%f",&mgBasicPay);

        // calling percentageCalculator function & passing values to it.

medicalAllowance=percentageCalculator(mgBasicPay,25);
conveyanceAllowance=percentageCalculator(mgBasicPay,20);
houseRent=percentageCalculator(mgBasicPay,45);
gpFund=percentageCalculator(mgBasicPay,7);

grossPay=mgBasicPay+medicalAllowance+conveyanceAllowance+houseRent;
netPay=grossPay-gpFund;

printf("\n\t BASIC PAY= %.2f",mgBasicPay);
printf("\n\t MEDICAL ALLOWANCE= %.2f",medicalAllowance);
printf("\n\t Conveyance Allowance= %.2f",conveyanceAllowance);
```

```
printf("\n\t House Rent= %.2f",houseRent);

printf("\n\t Gross Pay= %.2f",grossPay);
printf("\n\t Deduction of GPFund= %.2f",gpFund);

printf("\n\t Net Pay= %.2f",netPay);



getch();                        // pause screen till any button is pressed.
}               // end of-(eof) body of main function.


                // below is the definition of percentageCalculator function.
float percentageCalculator(float amount,int percent)
{                       // start of function body.
return (amount*percent/100.0);
}                       // end of function body.


/************************ OUTPUT ************************************

                _____________________________
                This is sample Practical No.15
                ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

        Enter Basic Pay ? 1000

        BASIC PAY= 1000.00
        MEDICAL ALLOWANCE= 250.00
        Conveyance Allowance= 200.00
        House Rent= 450.00
        Gross Pay= 1900.00
        Deduction of GPFund= 70.00
        Net  Pay= 1830.00
*********************************************************************************/
```

Part-2 Databases

Practical No.1

Object Write a procedure to create a table Teacher having the following fields

FacultyId, TeacherName, Designation, Department.

Queries

1. Assign primary key to a suitable column.
2.Input 5 records
3. Dispay all records having same Department
4. List all the records with designation Lecturer.

Procedure

Switching on Computer

1- Switch on your computer. Wait till the operation system **"Windows"** let you give access to interact with the computer.

Searching and Opening MS-Access

2-With the help of mouse click **"Start"** Icon, generally present at bottom left side of the computer screen.

3-Use Mouse click **"Search Bar"**, type **"Microsoft Office Access"** in it with the help of computer keyboard to search and open **MS-Access**.

Creating Database

4-Point Mouse Cursor to Blank Database, it will be highlighted then click it with mouse.

5- New panel at right hand side will be open, point your mouse cursor to the file name location, type new name **"TeacherDatabase"** there then click **"Create"** button.

Creating & Renaming Table

6-Another big new panel at right hand side will be open, point your mouse cursor to **"Table1: Table"** icon, it will be highlighted then right click it, with the mouse. A **"drop-down menu"** will be open, click second option **"Design View"** from it.

7- Now **"Save As"** panel will be open, give new name **"Teacher"** in the text box to Save **"Table1"** as **"Teacher"**, then press **"ok"** Button.

8-Type in the **"Field Name"** text value **"FacultyID"**.

9- Use mouse to point the cell below **"Data Type"**, select there **"Auto Number"** from the available **"combo box"** option list.
10- Use mouse to point the next cell present under **"Description"** heading, type the description whatever you want to write for your future reference or let it remain empty.

11- Repeat above steps till all the remaining **fields (TeacherName, Designation, Department) with "data types" and "description"** are properly typed into the corresponding cell of Database Design Window. Always use **"Text"** data type for fields like [Name, Address, Contact, Email etc.], **"AutoNumber"** for automatic assignment of numbers. **"Numeric"** for fields on which calculation are performed, **"Currency"** for fields like [wages, salary], **"Date"** for fields which are supposed to store dates, **"Hyperlink"** for fields holding [websites / urls etc.], **"OLE Object"** for picture, photographs, **"Yes/No"** for status showing field, **"Attachment"** for external files, **"Memo"** for descriptive fields.**"Lookup Wizard"** for foreign fields from other tables of the database.

12-

Requirement#1- Assigning Primary Key to the suitable field i.e **"FacultyId"** which can be capable of identifying each record uniquely. If it is already assigned by computer then no need to re-assign it.

Teacher

Field Name	Data Type	Description
FacultyId	AutoNumber	identification Number
TeacherName	Text	Name of teacher
Designation	Text	Rank,Designation of computer
Department	Text	Department of computer

13-Save the Table once again to update changes.

14

Requirement#2- Entering Five(5) Records

14-Now double click **"Teacher"** table to open it. Enter valid data into it. Use mouse to toggle b/w the fields of each record. Continue adding the record until you complete entering desired records. After it, close & finish record entry.

Teacher

FacultyId	TeacherName	Designation	Department
1	Mohsin Ahmed Khan Ghori	Lecturer	Computer Science
2	Shahzada Waseem	Assistant Professor	Computer Science
3	Khawar	Assistant Professor	Computer Science
4	Jamshid Hashmi	Lecturer	Physics
5	Asad Munir	Assistant Professor	Physics

Queries Design

15-With the help of mouse click **"Create"**, then point and left click **"Query Design"**.

17- **"Show table"** panel will be open, select **" Table"** tab from **"Table/Query/Both"**. Point and double left click the desired tables from available list of tables, to add these tables then left click **"cross/close"** present on top-right hand side of the panel, to close it.

18- Select field name from the available list of "combo-box", which you want to display or manipulate. Table name of that particular field will automatically be added after your selection of field. Mention the criteria if you want. Uncheck the "CheckBox" if you don't want to display this field.

19- Do repeat above step number 19 for each and every field, you want more to display or manipulate until you complete all desired field entries

20- Now in the **"criteria"** cell of field **"Department"** enter the contents **"Computer Science"** to create the query of "all records having same department" and then Left click the **"Cross/Close"** button to close the Query Panel, left click **"Yes"** Button to save the Query1 with the new name **"TeacherQuery1"**, again left click **"Ok"** Button. You can save query with your desired name as well.

21- Repeat from above step number 17 to 21 for creating remaining queries, just remove the contents of criteria cell, as per your requirement i.e. remove the contents

of field "Department" and enter the contents **"Lecturer"** in the criteria cell of **"Designation"** field, to "list all the records with designation (Lecturer)".

Obtaining Query Results

22-Double click any query to display its result, if there is a need of passing any value then just type-in the value you want to pass into the panel that appears before you.

Output

Requirement#3. Teachers of same Department.

Teachers of same department

FacultyId	TeacherName	Designation	Department
1	Mohsin Ahmed Khan Ghori	Lecturer	Computer Science
2	Shahzada Waseem	Assistant Professor	Computer Science
3	Khawar	Assistant Professor	Computer Science

Requirement#4. Teachers of same Designation.

Teachers of same department | Teachers of same designation

FacultyId	TeacherName	Designation	Department
1	Mohsin Ahmed Khan Ghori	Lecturer	Computer Science
4	Jamshid Hashmi	Lecturer	Physics

Practical No.2

Object Write a procedure to create a table Student having the following fields

StudentId, StudentName, Address, Cellno

Queries

1. Assign primary key to a suitable column.
2.Input 5 records
3. Dispay all records
4. Search record with StudentID.

Procedure

Switching on Computer

1- Switch on your computer. Wait till the operation system **"Windows"** let you give access to interact with the computer.

Searching and Opening MS-Access

2-With the help of mouse click **"Start"** Icon, generally present at bottom left side of the computer screen-

3-Use Mouse click **"Search Bar"**, type **"Microsoft Office Access"** in it with the help of computer keyboard to search and open **MS-Access**.

Creating Database

4-Point Mouse Cursor to Blank Database, it will be highlighted then click it with mouse.

5- New panel at right hand side will be open, point your mouse cursor to the file name location, type new name **"StudentDatabase"** there then click **"Create"** button.

Creating & Renaming Table

6-Another big new panel at right hand side will be open, point your mouse cursor to **"Table1: Table"** icon, it will be highlighted then right click it, with the mouse. A **"drop-down menu"** will be open, click second option **"Design View"** from it.

7- Now **"Save As"** panel will be open, give new name **"Student"** in the text box to Save **"Table1"** as **"Student"**, then press **"ok"** Button.

8-Type in the **"Field Name"** text value **"StudentId"**.

9- Use mouse to point the cell below **"Data Type"**, select there **"Auto Number"** from the available **"combo box"** option list.
10- Use mouse to point the next cell present under **"Description"** heading, type the description whatever you want to write for your future reference or let it remain empty.

11- Repeat above steps till all the remaining **fields (StudentName, Address, Cellno) with "data types" and "description"** are properly typed into the corresponding cell of Database Design Window. Always use **"Text"** data type for fields like [Name, Address, Contact, Email etc.], **"AutoNumber"** for automatic assignment of numbers. **"Numeric"** for fields on which calculation are performed, **"Currency"** for fields like [wages, salary], **"Date"** for fields which are supposed to store dates, **"Hyperlink"** for fields holding [websites / urls etc.], **"OLE Object"** for picture, photographs, **"Yes/No"** for status showing field, **"Attachment"** for external files, **"Memo"** for descriptive fields.**"Lookup Wizard"** for foreign fields from other tables of the database.
12-

Requirement#1- Assigning Primary Key to the suitable field i.e **"StudentId"** which can be capable of identifying each record uniquely. If it is already assigned by computer then no need to re-assign it.

Student

Field Name	Data Type	Description
StudentId	AutoNumber	identification Number
StudentName	Text	Name of Student
Address	Text	Address of student
Cellno	Text	phone number

13-Save the Table once again to update changes.

Requirement#2- Entering Five(5) Records

14-Now double click **"Student"** table to open it. Enter valid data into it. Use mouse to toggle b/w the fields of each record. Continue adding the record until you complete entering desired records. After it, close & finish record entry.

Student

StudentId	StudentName	Address	Cellno
1	Noman	R-2000/2 Azizabad Federal-B Area	(+92)3002535970
2	Junaid Ur Rehman	D-121 Block A North Nazimabad	(+92)3002535971
3	Adul Samad Shafiq	Flat No.1 Orangi Town Karachi	(+92)3332535970
4	Wasif Ghori	A-539 Block I North Naziambad	(+92)3002535983
5	Syed Azhar Ul Islam	B-490 Model Colony Malir	(+92)3303535970

Queries Design

15-With the help of mouse click **"Create"**, then point and left click **"Query Design"**.

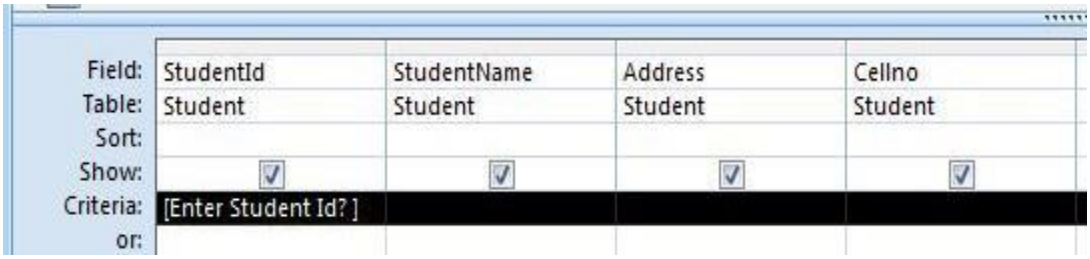
17- **"Show table"** panel will be open, select **" Table"** tab from **"Table/Query/Both"**. Point and double left click the desired tables from available list of tables, to add these tables then left click **"cross/close"** present on top-right hand side of the panel, to close it.

18- Select field name from the available list of "combo-box", which you want to display or manipulate. Table name of that particular field will automatically be added after your selection of field. Mention the criteria if you want. Uncheck the "CheckBox" if you don't want to display this field.

19- Do repeat above step number 19 for each and every field, you want more to display or manipulate until you complete all desired field entries

20- Now in the **"criteria"** cell of field **"StudentId"** enter the contents **"[Enter Student Id?]"** to create the query of "Showing student record by Student Id" and then Left click the **"Cross/Close"** button to close the Query Panel, left click **"Yes"** Button to save the Query1 with the new name **"Student By ID"**, again left click **"Ok"** Button. You can save query with your desired name as well.

21- Repeat from above step number 17 to 21 for creating remaining queries, just remove/change the contents of criteria cell, as per your requirement.



Obtaining Query Results

22-Double click any query to display its result, if there is a need of passing any value then just type-in the value you want to pass into the panel that appears before you.

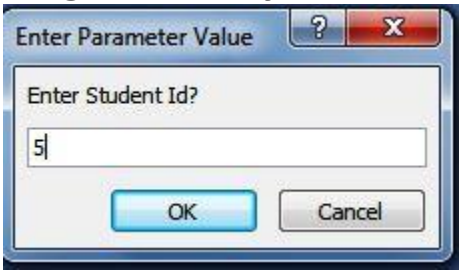
Output

Requirement#3- Showing all Five(5) Records

Student

StudentId	StudentName	Address	Cellno
1	Noman	R-2000/2 Azizabad Federal-B Area	(+92)3002535970
2	Junaid Ur Rehman	D-121 Block A North Nazimabad	(+92)3002535971
3	Adul Samad Shafiq	Flat No.1 Orangi Town Karachi	(+92)3332535970
4	Wasif Ghori	A-539 Block I North Naziambad	(+92)3002535983
5	Syed Azhar Ul Islam	B-490 Model Colony Malir	(+92)3303535970

Requirement#4- Showing Record by Student Id



Student By ID

StudentId	StudentName	Address	Cellno
5	Syed Azhar Ul Islam	B-490 Model Colony Malir	(+92)3303535970

Practical No.3

Object Write a procedure to create a table Students having the following fields

StudentId, Name, Class, Group, Gender.

Queries

1. Assign primary key to StudentId.
2.Input 5 records
3. Display all records of Female students
4. List all the records of students

Procedure

Switching on Computer

1- Switch on your computer. Wait till the operation system **"Windows"** let you give access to interact with the computer.

Searching and Opening MS-Access

2-With the help of mouse click **"Start"** Icon, generally present at bottom left side of the computer screen-

3-Use Mouse click **"Search Bar"**, type **"Microsoft Office Access"** in it with the help of computer keyboard to search and open **MS-Access**.

Creating Database

4-Point Mouse Cursor to Blank Database, it will be highlighted then click it with mouse.

5- New panel at right hand side will be open, point your mouse cursor to the file name location, type new name **"StudentsDatabase"** there then click **"Create"** button.

Creating & Renaming Table

6-Another big new panel at right hand side will be open, point your mouse cursor to **"Table1: Table"** icon, it will be highlighted then right click it, with the mouse. A **"drop-down menu"** will be open, click second option **"Design View"** from it.

7- Now **"Save As"** panel will be open, give new name **"Students"** in the text box to Save **"Table1"** as **"Students"**, then press **"ok"** Button.

8-Type in the **"Field Name"** text value **"StudentID"**.

9- Use mouse to point the cell below **"Data Type"**, select there **"Auto Number"** from the available **"combo box"** option list.
10- Use mouse to point the next cell present under **"Description"** heading, type the description whatever you want to write for your future reference or let it remain empty.

11- Repeat above steps till all the remaining **fields (StudentName, Class, Group, Gender) with "data types" and "description"** are properly typed into the corresponding cell of Database Design Window. Always use **"Text"** data type for fields like [Name, Address, Contact, Email etc.], **"AutoNumber"** for automatic assignment of numbers. **"Numeric"** for fields on which calculation are performed, **"Currency"** for fields like [wages, salary], **"Date"** for fields which are supposed to store dates, **"Hyperlink"** for fields holding [websites / urls etc.], **"OLE Object"** for picture, photographs, **"Yes/No"** for status showing field, **"Attachment"** for external files, **"Memo"** for descriptive fields.**"Lookup Wizard"** for foreign fields from other tables of the database.
12-

Requirement#1- Assigning Primary Key to the suitable field i.e **"StudentID"** which can be capable of identifying each record uniquely. If it is already assigned by computer then no need to re-assign it.

Students

Field Name	Data Type	Description
StudentID	AutoNumber	identification Number
StudentName	Text	Name of Student
Class	Text	Student Class
Group	Text	Pre-Engineering , Pre-Medical, Science General, Commerce etc.
Gender	Text	Male / Female

13-Save the Table once again to update changes.

Requirement#2- Entering Five(5) Records

14-Now double click **"Students"** table to open it. Enter valid data into it. Use mouse to toggle b/w the fields of each record. Continue adding the record until you complete entering desired records. After it, close & finish record entry.

AllStudentsList | Students

StudentID	StudentName	Class	Group	Gender
1	Abdul Samad Shfiq	XII	Science General	Male
2	Imran	XII	Science General	Male
3	Osama	XII	Science General	Male
4	Huma Khan Khuwachakzai	XII	Science General	Female
5	Fatima Soomro	XII	Science General	Female

Queries Design

15-With the help of mouse click **"Create"**, then point and left click **"Query Design"**.

17- **"Show table"** panel will be open, select **" Table"** tab from **"Table/Query/Both"**. Point and double left click the desired tables from available list of tables, to add these tables then left click **"cross/close"** present on top-right hand side of the panel, to close it.

18- Select field name from the available list of "combo-box", which you want to display or manipulate. Table name of that particular field will automatically be added after your selection of field. Mention the criteria if you want. Uncheck the "CheckBox" if you don't want to display this field.

19- Do repeat above step number 19 for each and every field, you want more to display or manipulate until you complete all desired field entries

20- Now in the **"criteria"** cell of field **"Gender"** enter the contents **"Female"** to create the query of "all female records" and then Left click the **"Cross/Close"** button to close the Query Panel, left click **"Yes"** Button to save the Query1 with the new name **"FemaleStudents"**, again left click **"Ok"** Button. You can save query with your desired name as well.

21- Repeat from above step number 17 to 21 for creating remaining queries, just remove/change the contents of criteria cell, as per your requirement.

Obtaining Query Results

22-Double click any query to display its result, if there is a need of passing any value then just type-in the value you want to pass into the panel that appears before you.

Output

Requirement#3- Showing all records of female students

FemaleStudents

StudentID	StudentName	Class	Group	Gender
4	Huma Khan Khuwachakzai	XII	Science General	Female
5	Fatima Soomro	XII	Science General	Female

Requirement#4- Showing all Five(5) Records

AllStudentsList

StudentID	StudentName	Class	Group	Gender
1	Abdul Samad Shfiq	XII	Science General	Male
2	Imran	XII	Science General	Male
3	Osama	XII	Science General	Male
4	Huma Khan Khuwachakzai	XII	Science General	Female
5	Fatima Soomro	XII	Science General	Female

Practical No.4

Object Write a procedure to create a table MyBank having the following fields

AccountNo, AccountName,Credit, Debit.

Queries

1. Assign primary key to a suitable column.
2.Input 5 records
3. Add a column Balance
4. Update the column Balance.

Procedure

Switching on Computer

1- Switch on your computer. Wait till the operation system **"Windows"** let you give access to interact with the computer.

Searching and Opening MS-Access

2-With the help of mouse click **"Start"** Icon, generally present at bottom left side of the computer screen-

3-Use Mouse click **"Search Bar"**, type **"Microsoft Office Access"** in it with the help of computer keyboard to search and open **MS-Access**.

Creating Database

4-Point Mouse Cursor to Blank Database, it will be highlighted then click it with mouse.

5- New panel at right hand side will be open, point your mouse cursor to the file name location, type new name **"MyBankDatabase"** there then click **"Create"** button.

Creating & Renaming Table

6-Another big new panel at right hand side will be open, point your mouse cursor to **"Table1: Table"** icon, it will be highlighted then right click it, with the mouse. A **"drop-down menu"** will be open, click second option **"Design View"** from it.

7- Now **"Save As"** panel will be open, give new name **"MyBank"** in the text box to Save **"Table1"** as **"MyBank"**, then press **"ok"** Button.

8-Type in the **"Field Name"** text value **"AccountNo"**.

9- Use mouse to point the cell below **"Data Type"**, select there **"Auto Number"** from the available **"combo box"** option list.
10- Use mouse to point the next cell present under **"Description"** heading, type the description whatever you want to write for your future reference or let it remain empty.

11- Repeat above steps till all the remaining **fields (AccountName, Credit, Debit) with "data types" and "description"** are properly typed into the corresponding cell of Database Design Window. Always use **"Text"** data type for fields like [Name, Address, Contact, Email etc.], **"AutoNumber"** for automatic assignment of numbers. **"Numeric"** for fields on which calculation are performed, **"Currency"** for fields like [wages, salary], **"Date"** for fields which are supposed to store dates, **"Hyperlink"** for fields holding [websites / urls etc.], **"OLE Object"** for picture, photographs, **"Yes/No"** for status showing field, **"Attachment"** for external files, **"Memo"** for descriptive fields.**"Lookup Wizard"** for foreign fields from other tables of the database.
12-

Requirement#1- Assigning Primary Key

to the suitable field i.e **"AccountNo"** which can be capable of identifying each record uniquely. If it is already assigned by computer then no need to re-assign it.

MyBank

Field Name	Data Type	Description
AccountNo	AutoNumber	Account Number
AccountName	Text	Title of Account
Credit	Currency	Total Credit
Debit	Currency	Total Debit

13-Save the Table once again to update changes.

Requirement#2- Entering Five(5) Records

14-Now double click **"MyBank"** table to open it. Enter valid data into it. Use mouse to toggle b/w the fields of each record. Continue adding the record until you complete entering desired records. After it, close & finish record entry.

MyBank Query

AccountNo	AccountName	Credit	Debit
1	Mohsin Ahmed Khan Ghori	$1,000.00	$200.00
2	Sana ULLAH	$100.00	$100.00
3	Danish Aziz	$1,200.00	$120.00
4	Kamran Khalil	$2,300.00	$120.00
5	Ahsan Shiekh	$10,000.00	$900.00
(New)	Mohsin Ahmed Khan Ghori		

Queries Design

15-With the help of mouse click **"Create"**, then point and left click **"Query Design"**.

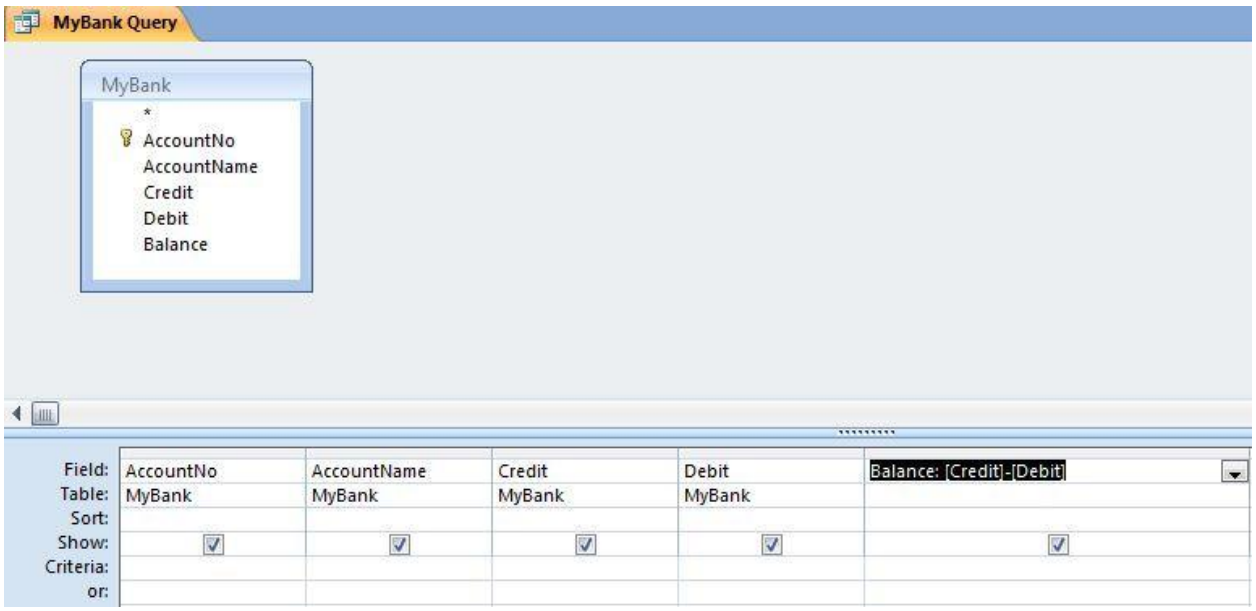
17- **"Show table"** panel will be open, select **" Table"** tab from **"Table/Query/Both"**. Point and double left click the desired tables from available list of tables, to add these tables then left click **"cross/close"** present on top-right hand side of the panel, to close it.

18- Select field name from the available list of "combo-box", which you want to display or manipulate. Table name of that particular field will automatically be added after your selection of field. Mention the criteria if you want. Uncheck the "CheckBox" if you don't want to display this field.

19- Do repeat above step number 19 for each and every field, you want more to display or manipulate until you complete all desired field entries

20- Now add new column **"Balance"** in the query **"MyBank Query"** in **"design view"**. Write like this **"Balance:[Credit]*[Debit]"** in the Field corresponding cell to make it calculated field to create the query of "all records show balance" and then Left click the **"Cross/Close"** button to close the Query Panel, left click **"Yes"** Button to save the Query1 with the new name **"MyBank Query"**, again left click **"Ok"** Button. You can save query with your desired name as well.

21- Repeat from above step number 17 to 21 for creating remaining queries, just remove the contents of criteria cell, as per your requirement.



Obtaining Query Results

22-Double click any query to display its result, if there is a need of passing any value then just type-in the value you want to pass into the panel that appears before you.

Output

Requirement#3- Inserting Balance Column

MyBank

AccountNo	AccountName	Credit	Debit	Balance
(New)	Mohsin Ahmed Khan Ghori			

Requirement#4- Updating Balance Column

MyBank Query

AccountNo	AccountName	Credit	Debit	Balance
1	Mohsin Ahmed Khan Ghori	$1,000.00	$200.00	$800.00
2	Sana ULLAH	$100.00	$100.00	$0.00
3	Danish Aziz	$1,200.00	$120.00	$1,080.00
4	Kamran Khalil	$2,300.00	$120.00	$2,180.00
5	Ahsan Shiekh	$10,000.00	$900.00	$9,100.00
(New)	Mohsin Ahmed Khan Ghori			

Practical No.5

Object Write a procedure to create a table Library having the following fields

BookId, Name, Reference or Lending, BookIssued.

Queries

1. Assign primary key to a suitable column.
2.Input 5 records
3. Dispay all books which are not for lending
4. Find list of books issued.

Procedure

Switching on Computer

1- Switch on your computer. Wait till the operation system **"Windows"** let you give access to interact with the computer.

Searching and Opening MS-Access

2-With the help of mouse click **"Start"** Icon, generally present at bottom left side of the computer screen-

3-Use Mouse click **"Search Bar"**, type **"Microsoft Office Access"** in it with the help of computer keyboard to search and open **MS-Access**.

Creating Database

4-Point Mouse Cursor to Blank Database, it will be highlighted then click it with mouse.

5- New panel at right hand side will be open, point your mouse cursor to the file name location, type new name **"LibraryDatabase"** there then click **"Create"** button.

Creating & Renaming Table

6-Another big new panel at right hand side will be open, point your mouse cursor to **"Table1: Table"** icon, it will be highlighted then right click it, with the mouse. A **"drop-down menu"** will be open, click second option **"Design View"** from it.

7- Now **"Save As"** panel will be open, give new name **"Library"** in the text box to Save **"Table1"** as **"Library"**, then press **"ok"** Button.

8-Type in the **"Field Name"** text value **"BookId"**.

9- Use mouse to point the cell below **"Data Type"**, select there **"Auto Number"** from the available **"combo box"** option list.
10- Use mouse to point the next cell present under **"Description"** heading, type the description whatever you want to write for your future reference or let it remain empty.

11- Repeat above steps till all the remaining **fields (BookName, Reference, Issued) with "data types" and "description"** are properly typed into the corresponding cell of Database Design Window. Always use **"Text"** data type for fields like [Name, Address, Contact, Email etc.], **"AutoNumber"** for automatic assignment of numbers. **"Numeric"** for fields on which calculation are performed, **"Currency"** for fields like [wages, salary], **"Date"** for fields which are supposed to store dates, **"Hyperlink"** for fields holding [websites / urls etc.], **"OLE Object"** for picture, photographs, **"Yes/No"** for status showing field, **"Attachment"** for external files, **"Memo"** for descriptive fields."**Lookup Wizard"** for foreign fields from other tables of the database.

12-

Requirement#1- Assigning Primary Key

to the suitable field i.e **"BookId"** which can be capable of identifying each record uniquely. If it is already assigned by computer then no need to re-assign it.

13-Save the Table once again to update changes.

Requirement#2- Entering Five(05) Records

14-Now double click **"Library"** table to open it. Enter valid data into it. Use mouse to toggle b/w the fields of each record. Continue adding the record until you complete entering desired records. After it, close & finish record entry.

Library

BookId	BookName	Reference	Issued
1	C Language by Robert Lafore	☑	☐
2	XII Book by Prof.Shahzada Wasim	☐	☑
3	The 10 Programmings by Mohsin Ahmed Khan Ghori	☐	☐
4	C Language by Robert Lafore	☑	☐
5	C++ Language by Naba Barkakati	☐	☑

Queries Design

15-With the help of mouse click **"Create"**, then point and left click **"Query Design"**.

17- **"Show table"** panel will be open, select **" Table"** tab from **"Table/Query/Both"**. Point and double left click the desired tables from available list of tables, to add these tables then left click **"cross/close"** present on top-right hand side of the panel, to close it.

18- Select field name from the available list of "combo-box", which you want to display or manipulate. Table name of that particular field will automatically be added after your selection of field. Mention the criteria if you want. Uncheck the "CheckBox" if you don't want to display this field.

19- Do repeat above step number 19 for each and every field, you want more to display or manipulate until you complete all desired field entries

20- Now in the **"criteria"** cell of field **"Reference"** enter the contents **"Yes"** to create the query of "all books not for lending (Reference Books)" and then Left click the **"Cross/Close"** button to close the Query Panel, left click **"Yes"** Button to save the Query1 with the new name **"Reference Books(Not for Lending)"**, again left click **"Ok"** Button. You can save query with your desired name as well.

21- Repeat from above step number 17 to 21 for creating remaining queries, just remove/change the contents of criteria cell, as per your requirement.

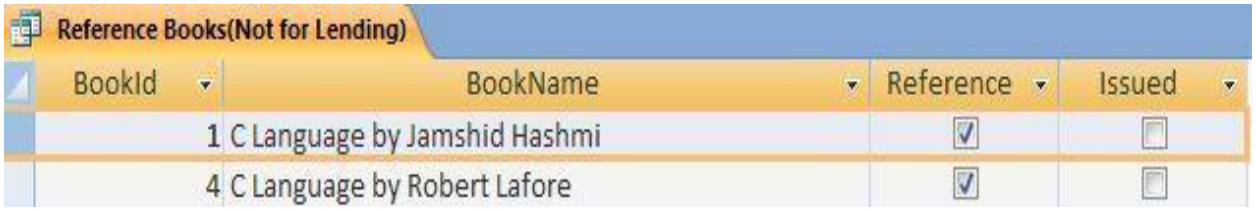
Field:	BookId	BookName	Reference	Issued
Table:	Library	Library	Library	Library
Sort:				
Show:	☑	☑	☑	☑
Criteria:			No	Yes
or:				

Obtaining Query Results

22-Double click any query to display its result, if there is a need of passing any value then just type-in the value you want to pass into the panel that appears before you.

Output

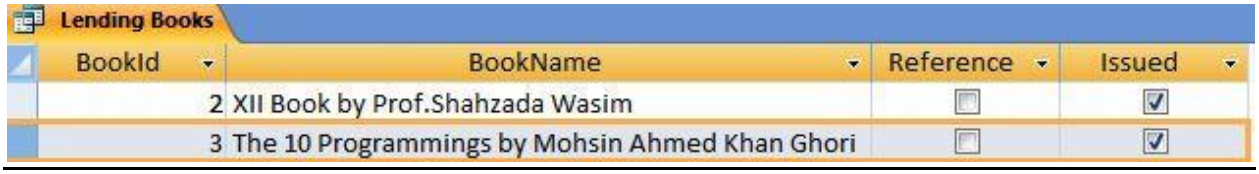
Requirement# 3- Showing Reference Books which are not for lending



Reference Books(Not for Lending)

BookId	BookName	Reference	Issued
1	C Language by Jamshid Hashmi	☑	☐
4	C Language by Robert Lafore	☑	☐

Requirement#4- List of issued Books



Lending Books

BookId	BookName	Reference	Issued
2	XII Book by Prof.Shahzada Wasim	☐	☑
3	The 10 Programmings by Mohsin Ahmed Khan Ghori	☐	☑

Practical No.6

Object Write a procedure to create a table Employees having the following fields

EmployeeId, EmployeeName, Address, Postcode, DateHired, Wages.

Queries

1. Assign primary key to a suitable column.
2.Input 5 records
3. Display particular record by EmployeeId
4. Display those records who have the same Address.

Procedure

Switching on Computer

1- Switch on your computer. Wait till the operation system **"Windows"** let you give access to interact with the computer.

Searching and Opening MS-Access

2-With the help of mouse click **"Start"** Icon, generally present at bottom left side of the computer screen.

3-Use Mouse click **"Search Bar"**, type **"Microsoft Office Access"** in it with the help of computer keyboard to search and open **MS-Access**.

Creating Database

4-Point Mouse Cursor to Blank Database, it will be highlighted then click it with mouse.

5- New panel at right hand side will be open, point your mouse cursor to the file name location, type new name **"EmployeeDatabase"** there then click **"Create"** button.

Creating & Renaming Table

6-Another big new panel at right hand side will be open, point your mouse cursor to **"Table1: Table"** icon, it will be highlighted then right click it, with the mouse. A **"drop-down menu"** will be open, click second option **"Design View"** from it.
7- Now **"Save As"** panel will be open, give new name **"Employee"** in the text box to Save **"Table1"** as **"Employee"**, then press **"ok"** Button.

8-Type in the **"Field Name"** text value **"EmployeeID"**.

9- Use mouse to point the cell below **"Data Type"**, select there **"Auto Number"** from the available **"combo box"** option list.
10- Use mouse to point the next cell present under **"Description"** heading, type the description whatever you want to write for your future reference or let it remain empty.

11- Repeat above steps till all the remaining **fields (EmployeeName, Address, Postcode, DateHired) with "data types" and "description"** are properly typed into the corresponding cell of Database Design Window. Always use **"Text"** data type for fields like [Name, Address, Contact, Email etc.], **"AutoNumber"** for automatic assignment of numbers. **"Numeric"** for fields on which calculation are performed, **"Currency"** for fields like [wages, salary], **"Date"** for fields which are supposed to store dates, **"Hyperlink"** for fields holding [websites / urls etc.], **"OLE Object"** for picture, photographs, **"Yes/No"** for status showing field, **"Attachment"** for external files, **"Memo"** for descriptive fields.**"Lookup Wizard"** for foreign fields from other tables of the database.
12-

Requirement#1- Assigning Primary Key to the suitable field i.e **"EmployeeID"** which can be capable of identifying each record uniquely. If it is already assigned by computer then no need to re-assign it.

Employee

Field Name	Data Type	Description
EmployeeID	AutoNumber	identification Number
EmployeeName	Text	Name of Employee
Address	Text	Employee Address
Postcode	Text	Postal code of employee
DateHired	Date/Time	Date of hiring of the Employee

13-Save the Table once again to update changes.

Requirement#2-Entering Five(5) Records

14-Now double click **"Employee"** table to open it. Enter valid data into it. Use mouse to toggle b/w the fields of each record. Continue adding the record until you complete entering desired records. After it, close & finish record entry.

Employee

EmployeeID	EmployeeName	Address	Postcode	DateHired
1	Asim Husain Khan	H.No. 7/14 Naseerabad Gulshan-e-Iqbal Karachi	75950	3/16/2019
2	Ashar Saeed Aalam	Flat No. A2 F.C. Area Karachi	75960	3/16/2019
3	Ali Akber	House No. 1 New Karachi	75950	3/16/2019
4	Faisal Raheem	Banglow No.D-47 Gulshan-e-Iqbal Karachi	75000	3/16/2019
5	Yaseen Ghori	Banglow No. C-101 Defence Karachi	70000	3/16/2019

Queries Design

15-With the help of mouse click **"Create"**, then point and left click **"Query Design"**.

17- **"Show table"** panel will be open, select **" Table"** tab from **"Table/Query/Both"**. Point and double left click the desired tables from available list of tables, to add these tables then left click **"cross/close"** present on top-right hand side of the panel, to close it.

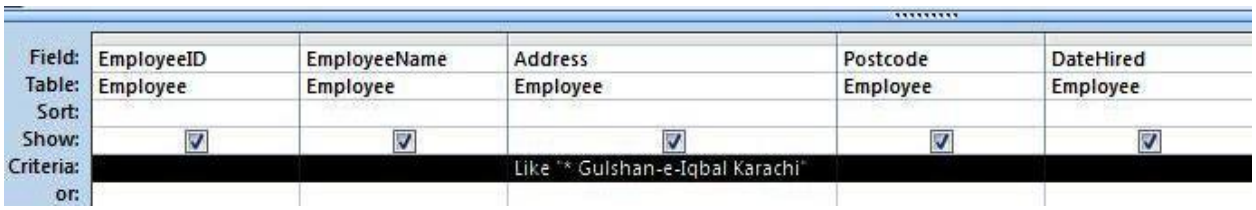
18- Select field name from the available list of "combo-box", which you want to display or manipulate. Table name of that particular field will automatically be added after your selection of field. Mention the criteria if you want. Uncheck the "CheckBox" if you don't want to display this field.

19- Do repeat above step number 19 for each and every field, you want more to display or manipulate until you complete all desired field entries

20- Now in the **"criteria"** cell of field **"EmployeeID"** enter the contents **"[Enter EmployeeID?]"** to create the query of "Display Particular Record by Employee ID" and then Left click the **"Cross/Close"** button to close the Query Panel, left click **"Yes"** Button to save the Query1 with the new name **"Employees By ID"**, again left click **"Ok"** Button. You can save query with your desired name as well.

Field:	[EmployeeID]	[EmployeeName]	[Address]	[Postcode]	[DateHired]
Table:	Employee	Employee	Employee	Employee	Employee
Sort:					
Show:	☑	☑	☑	☑	☑
Criteria:	[Enter Employee ID?]				
or:					

21- Now in the **"criteria"** cell of field **"Address"** enter the contents **"Like * Gulshan-e-Iqbal Karachi"** to create the query of "Records having same address" and then Left click the **"Cross/Close"** button to close the Query Panel, left click **"Yes"** Button to save the Query1 with the new name **"Employees By Address"**, again left click **"Ok"** Button. You can save query with your desired name as well.



Field:	EmployeeID	EmployeeName	Address	Postcode	DateHired
Table:	Employee	Employee	Employee	Employee	Employee
Sort:					
Show:	☑	☑	☑	☑	☑
Criteria:			Like "* Gulshan-e-Iqbal Karachi"		
or:					

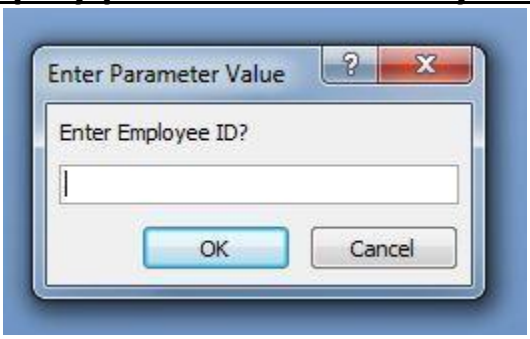
22- Repeat from above step number 17 to 21 for creating remaining queries, just remove the contents of criteria cell, as per your requirement.

Obtaining Query Results

22-Double click any query to display its result, if there is a need of passing any value then just type-in the value you want to pass into the panel that appears before you.

Output

Requirement#3. Display particular record by EmployeeId



Employee By ID

EmployeeID	EmployeeName	Address	Postcode	DateHired
5	Yaseen Ghori	Banglow No. C-101 Defence Karachi	70000	3/16/2019

Requirement#4- Display All records having the same Address

Employee By Address

EmployeeID	EmployeeName	Address	Postcode	DateHired
1	Asim Husain Khan	H.No. 7/14 Naseerabad Gulshan-e-Iqbal Karachi	75950	3/16/2019
4	Faisal Raheem	Banglow No.D-47 Gulshan-e-Iqbal Karachi	75000	3/16/2019
(New)	Mohsin Ahmed Khan Ghori	House No. 1 New Karachi	75950	3/16/2019

Practical No.7

Object Write a procedure to create a two tables having the following fields

Table1:AccountNo, AccountName, HolderAddress, Contact, Email.
Table2:AccountNo, AccountStatus.

Queries
1. Input 5 records
2. Search the desired AccountNo
3. Delete the desired AccountNo
4. Update desired AccountId.

Procedure

Switching on Computer

1- Switch on your computer. Wait till the operation system **"Windows"** let you give access to interact with the computer.

Searching and Opening MS-Access

2-With the help of mouse click **"Start"** Icon, generally present at bottom left side of the computer screen.

3-Use Mouse click **"Search Bar"**, type **"Microsoft Office Access"** in it with the help of computer keyboard to search and open **MS-Access**.

Creating Database

4-Point Mouse Cursor to Blank Database, it will be highlighted then click it with mouse.

5- New panel at right hand side will be open, point your mouse cursor to the file name location, type new name **"BankAccountDatabase"** there then click **"Create"** button.

Creating & Renaming Tables

6-Another big new panel at right hand side will be open, point your mouse cursor to **"Table1: Table"** icon, it will be highlighted then right click it, with the mouse. A **"drop-down menu"** will be open, click second option **"Design View"** from it.
7- Now **"Save As"** panel will be open, give new name **"BankAccount"** in the text box to Save **"Table1"** as **"BankAccount"**, then press **"ok"** Button.

8-Type in the **"Field Name"** text value **"AccountNo"**.

9- Use mouse to point the cell below **"Data Type"**, select there **"Auto Number"** from the available **"combo box"** option list.
10- Use mouse to point the next cell present under **"Description"** heading, type the description whatever you want to write for your future reference or let it remain empty.

11- Repeat above steps till all the remaining **fields (AccountName, HolderAddress, Contact, Email) with "data types" and "description"** are properly typed into the corresponding cell of Database Design Window. Always use **"Text"** data type for fields like [Name, Address, Contact, Email etc.], **"AutoNumber"** for automatic assignment of numbers. **"Numeric"** for fields on which calculation are performed, **"Currency"** for fields like [wages, salary], **"Date"** for fields which are supposed to store dates, **"Hyperlink"** for fields holding [websites / urls etc.], **"OLE Object"** for picture, photographs, **"Yes/No"** for status showing field, **"Attachment"** for external files, **"Memo"** for descriptive fields.**"Lookup Wizard"** for foreign fields from other tables of the database.
12- Repeat steps 6 to 11 for "AccountStatus" Table having fields (AccountNo as Foreign Key from BankAccount Table, AccountStatus)

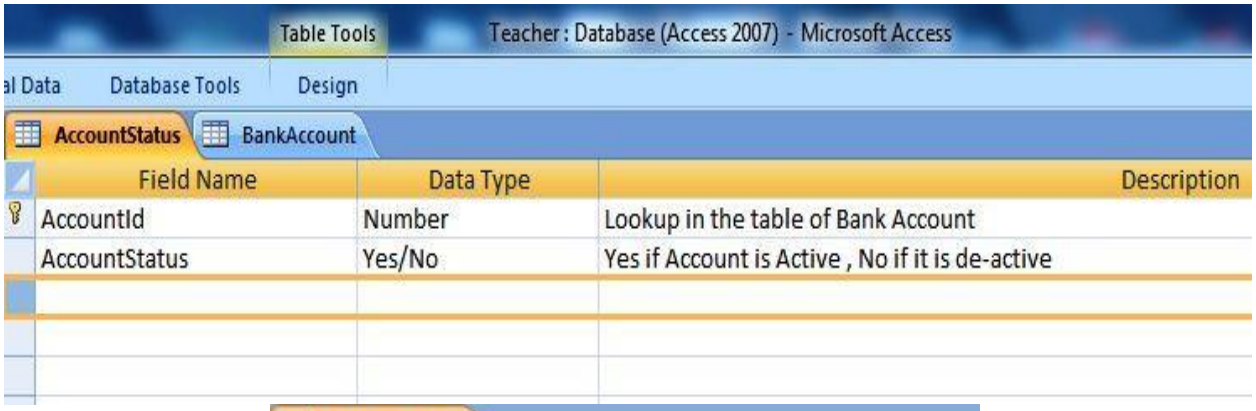
13-

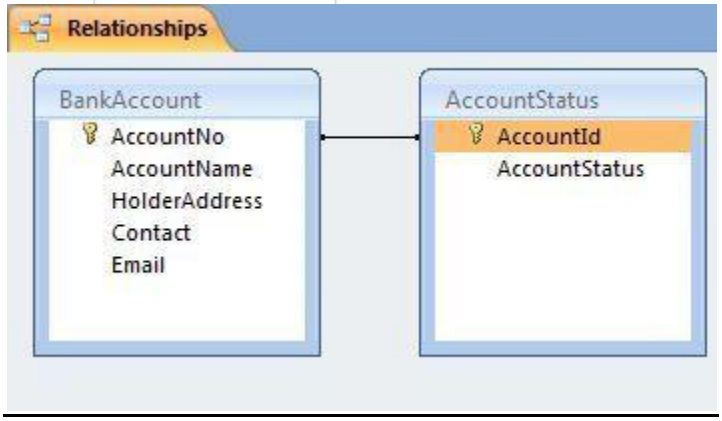
Assigning Primary Key to the suitable field i.e **"AccountNo" in "BankAccount"** table as well as in **"Account Status"** table which can be capable of identifying each record uniquely.

14-Save the Tables once again to update changes.

AccountStatus | BankAccount

Field Name	Data Type	Description
AccountNo	AutoNumber	Account Number
AccountName	Text	Title of Account
HolderAddress	Text	Address of Account Holder
Contact	Text	phone,mobile number of account holder
Email	Text	Email Address of account holder





Requirement#1- Entering Five(5) Records

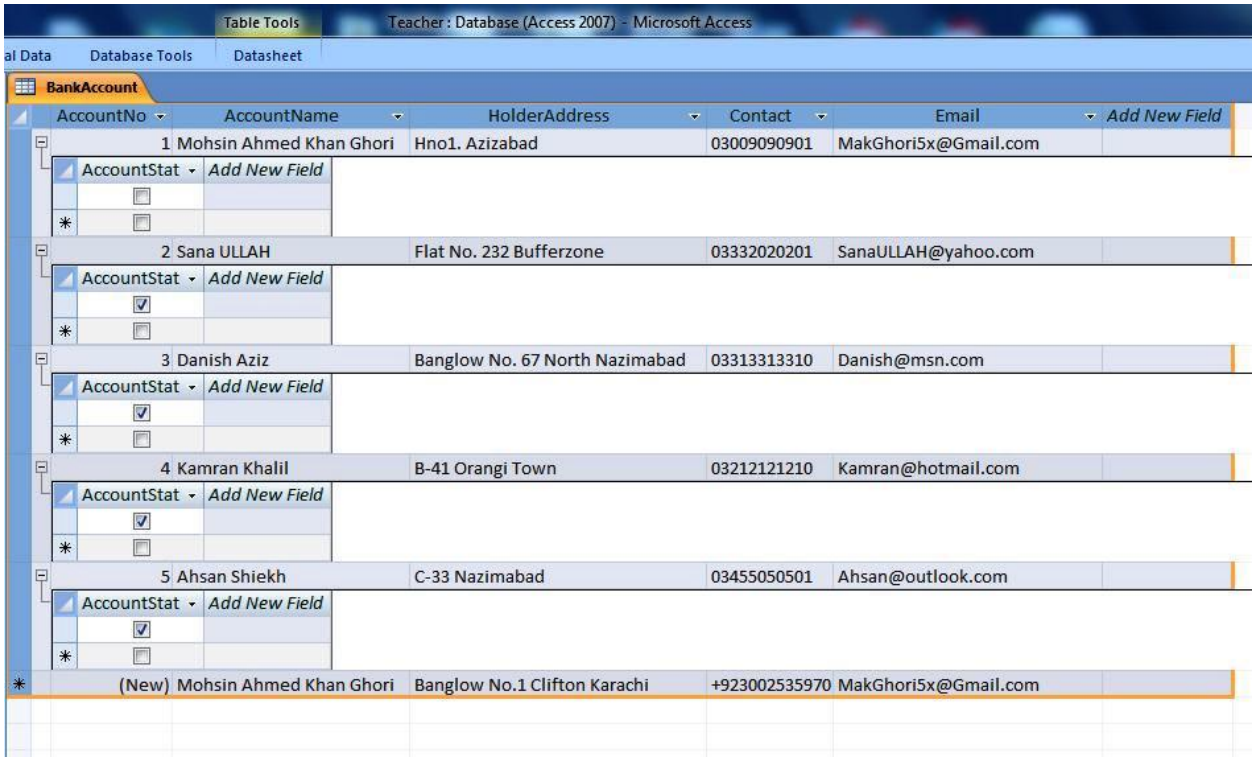
15-Now double click **"BankAccount"** and **"Account Status"** tables repectively, to open it. Enter valid data into it. Use mouse to toggle b/w the fields of each record. Continue adding the record until you complete entering desired records. After it, close & finish record entry.

BankAccount

AccountNo	AccountName	HolderAddress	Contact	Email	Add New Field
1	Mohsin Ahmed Khan Ghori	Hno1. Azizabad	03009090901	MakGhori5x@Gmail.com	
2	Sana ULLAH	Flat No. 232 Bufferzone	03332020201	SanaULLAH@yahoo.com	
3	Danish Aziz	Banglow No. 67 North Nazimabad	03313313310	Danish@msn.com	
4	Kamran Khalil	B-41 Orangi Town	03212121210	Kamran@hotmail.com	
5	Ahsan Shiekh	C-33 Nazimabad	03455050501	Ahsan@outlook.com	
(New)	Mohsin Ahmed Khan Ghori	Banglow No.1 Clifton Karachi	+923002535970	MakGhori5x@Gmail.com	

AccountStatus

AccountId	AccountStat	Add New Field
Mohsin Ahmed Khan Ghori	☐	
Sana ULLAH	☑	
Danish Aziz	☑	
Kamran Khalil	☑	
Ahsan Shiekh	☑	
*	☐	



AccountNo	AccountName	HolderAddress	Contact	Email	Add New Field
1	Mohsin Ahmed Khan Ghori	Hno1. Azizabad	03009090901	MakGhori5x@Gmail.com	
2	Sana ULLAH	Flat No. 232 Bufferzone	03332020201	SanaULLAH@yahoo.com	
3	Danish Aziz	Banglow No. 67 North Nazimabad	03313313310	Danish@msn.com	
4	Kamran Khalil	B-41 Orangi Town	03212121210	Kamran@hotmail.com	
5	Ahsan Shiekh	C-33 Nazimabad	03455050501	Ahsan@outlook.com	
(New)	Mohsin Ahmed Khan Ghori	Banglow No.1 Clifton Karachi	+923002535970	MakGhori5x@Gmail.com	

AccountStat | Add New Field

Queries Design

16-With the help of mouse click **"Create"**, then point and left click **"Query Design"**.

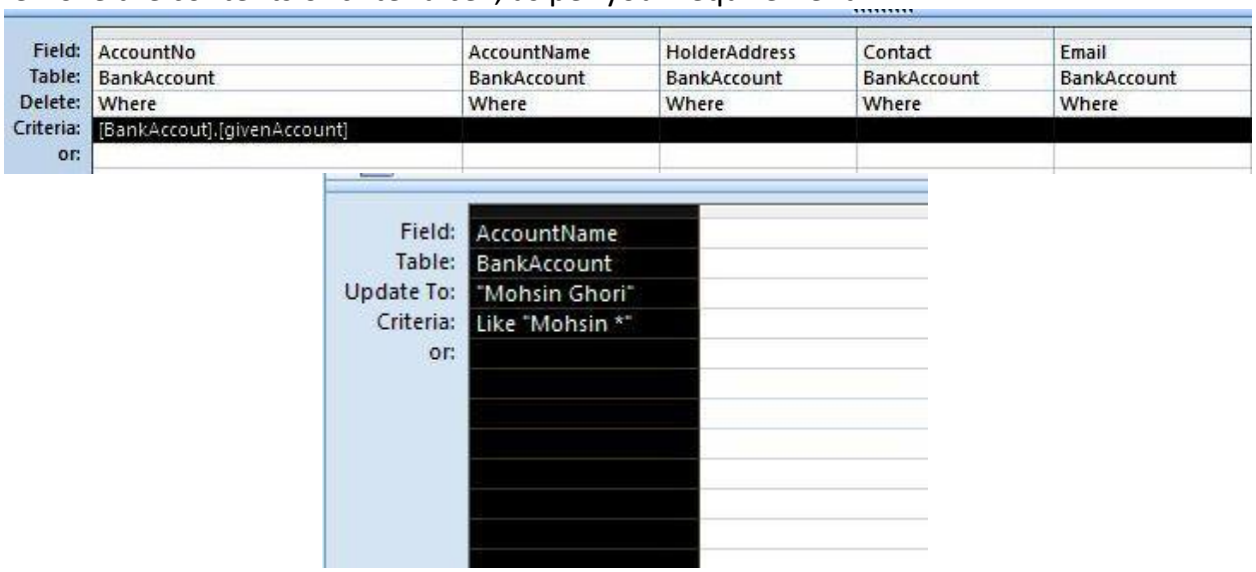
17- **"Show table"** panel will be open, select **" Table"** tab from **"Table/Query/Both"**. Point and double left click the desired tables from available list of tables, to add these tables then left click **"cross/close"** present on top-right hand side of the panel, to close it.

18- Select field name from the available list of "combo-box", which you want to display or manipulate. Table name of that particular field will automatically be added after your selection of field. Mention the criteria if you want. Uncheck the "CheckBox" if you don't want to display this field.

19- Do repeat above step number 19 for each and every field, you want more to display or manipulate until you complete all desired field entries

20- Now in the **"criteria"** cell of field **"AccountNo", table "BankAccount"** enter the contents **"[BankAccount].[givenAccount]"** to create the query of "all records having same department" and then Left click the **"Cross/Close"** button to close the Query Panel, left click **"Yes"** Button to save the Query1 with the new name **"BankRecord Display By Id"**, again left click **"Ok"** Button. You can save query with your desired name as well.

21- Repeat from above step number 17 to 21 for creating remaining queries, just remove the contents of criteria cell, as per your requirement.



Field:	AccountNo	AccountName	HolderAddress	Contact	Email
Table:	BankAccount	BankAccount	BankAccount	BankAccount	BankAccount
Delete:	Where	Where	Where	Where	Where
Criteria:	[BankAccout].[givenAccount]				
or:					

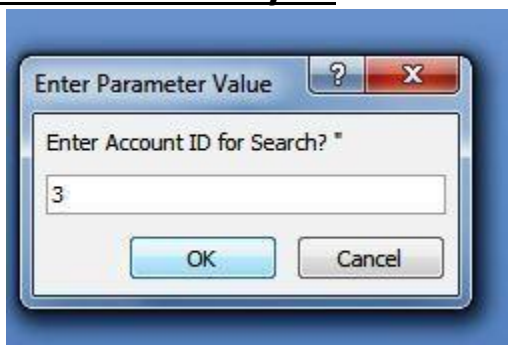
Field:	AccountName
Table:	BankAccount
Update To:	"Mohsin Ghori"
Criteria:	Like "Mohsin *"
or:	

Obtaining Query Results

22-Double click any query to display its result, if there is a need of passing any value then just type-in the value you want to pass into the panel that appears before you.

Output

Requirement#2-Search Account by ID



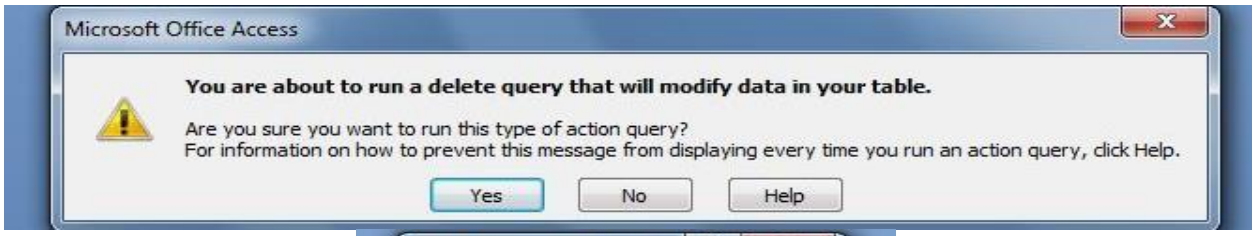
BankAccount Display by ID

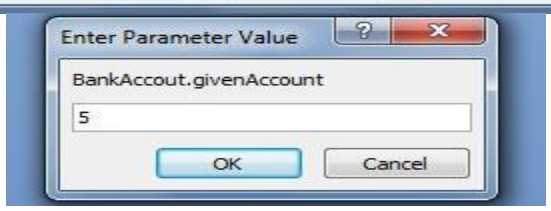
AccountNo	AccountName	HolderAddress	Contact	Email
3	Danish Aziz	Banglow No. 67 North Nazimabad	03313313310	Danish@msn.com
(New)	Mohsin Ahmed Khan Ghori	Banglow No.1 Clifton Karachi	+923002535970	MakGhori5x@Gmail.com

Requirement#3- Delete Account by ID

BankAccount

AccountNo	AccountName	HolderAddress	Contact	Email	Add New Field
1	Mohsin Ahmed Khan Ghori	Hno1. Azizabad	03009090901	MakGhori5x@Gmail.com	
2	Sana ULLAH	Flat No. 232 Bufferzone	03332020201	SanaULLAH@yahoo.com	
3	Danish Aziz	Banglow No. 67 North Nazimabad	03313313310	Danish@msn.com	
4	Kamran Khalil	B-41 Orangi Town	03212121210	Kamran@hotmail.com	
5	Ahsan Shiekh	C-33 Nazimabad	03455050501	Ahsan@outlook.com	
(New)	Mohsin Ahmed Khan Ghori	Banglow No.1 Clifton Karachi	+923002535970	MakGhori5x@Gmail.com	

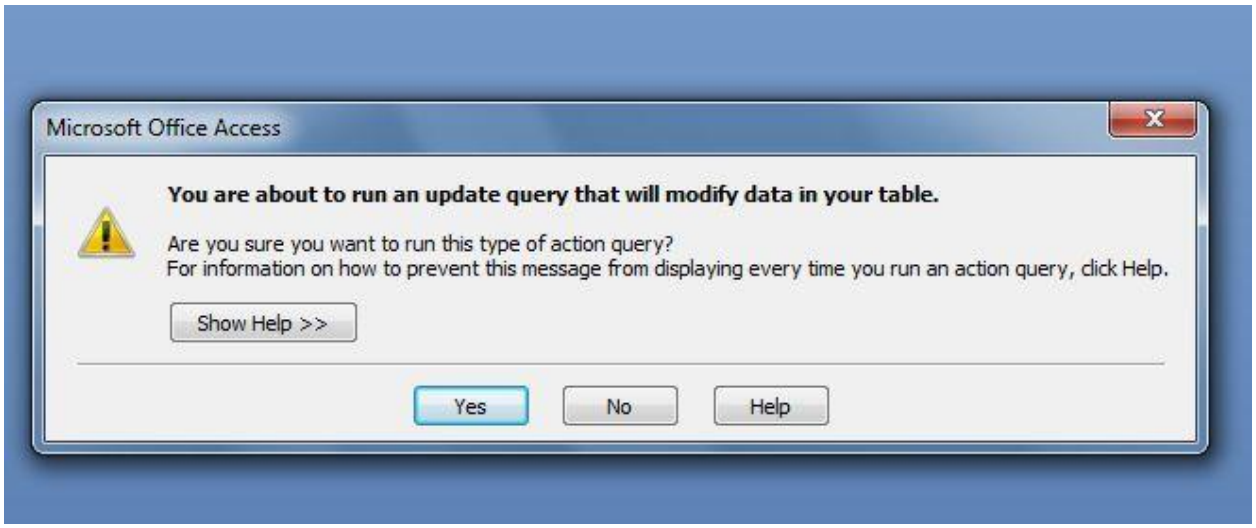


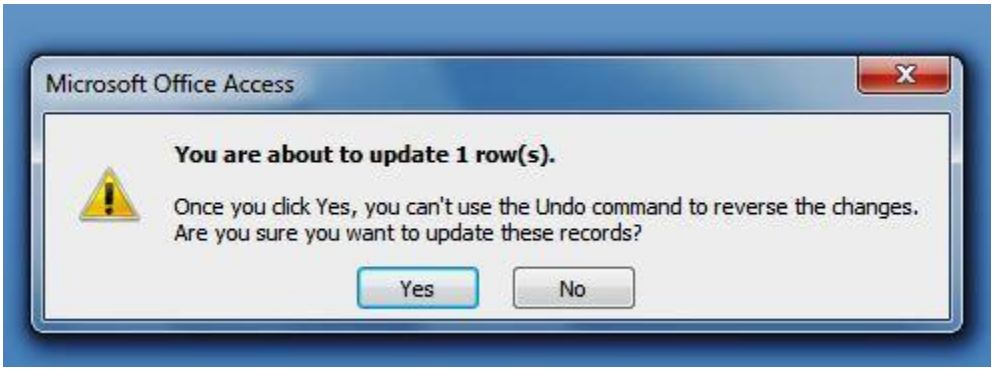


BankAccount

AccountNo	AccountName	HolderAddress	Contact	Email
1	Mohsin Ahmed Khan Ghori	Hno1. Azizabad	03009090901	MakGhori5x@Gmail.com
2	Sana ULLAH	Flat No. 232 Bufferzone	03332020201	SanaULLAH@yahoo.com
3	Danish Aziz	Banglow No. 67 North Nazimabad	03313313310	Danish@msn.com
6	Kamran Khalil	B-41 Orangi Town	+923002535970	Kamran@hotmail.com

Requirement#4- Update Account by ID





BankAccount

AccountNo	AccountName	HolderAddress	Contact	Email
1	Mohsin Ghori	Hno1. Azizabad	03009090901	MakGhori5x@Gmail.com
2	Sana ULLAH	Flat No. 232 Bufferzone	03332020201	SanaULLAH@yahoo.com
3	Danish Aziz	Banglow No. 67 North Nazimabad	03313313310	Danish@msn.com
4	Kamran Khalil	B-41 Orangi Town	03212121210	Kamran@hotmail.com
(New)	Mohsin Ahmed Khan Ghori	Banglow No.1 Clifton Karachi	+923002535970	MakGhori5x@Gmail.com